Aviation Week & Space Technology
January—June 1979 Editorial Index

AEROSPACE INDUSTRY

U.S.
- Aerospace gains seen in 1979 1/1,p22
- Wage, price rules retain termination clause 1/8,p14
- Chinese view U.S. technology 2/12,p16
- McDonnell Douglas authorizes record capital facilities budget 2/12,p16
- 1979 ushers in continued aerospace growth 3/12,p8
- Research tax credit urged for industry 4/2,p55
- Delivery times lengthening for machine tool industry 4/9,p50
- Agencies split on excess profit basis 4/16,p21
- First quarter shows income increases 4/30,p31
- Boeing earnings doubled in first quarter 5/21,p41

Africa
- Cost factor strong in African buys 6/11,p243
- Africa emerges as special market 6/11,p249

Australia
- Offsets will dictate Australian fighter buy 6/11,p282

Canada
- Companies offer offsets 6/11,p299

China, People's Republic
- Chinese shifting buying tactics 1/1,p23
- Chinese pushing aerospace technology 6/11,p133
- China's aerospace market eyed warily 6/11,p139

China, Republic of (Taiwan)
- Taiwan technology outlook bright 6/11,p145

Czechoslovakia
- Czechs gear for East Europe sales 6/11,p282

Europe
- European defense unity pushed 3/5,p12
- Cooperative trend continues 3/12,p59
- 'Problems of success' nag Europeans 3/12,p161

France
- Government buys 21% of Dassault 1/22,p18
- European suppliers expected to dominate French aerospace market 6/11,p256
- Aerospatiale using modular construction for aircraft 6/11,p324

Germany
- Germany gears for new fighter effort 6/11,p250
- German aerospace technology expands 6/25,p59

Great Britain
- Rolls wants bigger U.S. market share 1/8,p61
- British borrowing rules could force new equipment cutback 2/12,p34
- British announce defense budget 2/26,p23
- Losses foreseen in British programs 3/5,p25
- British to 'denationalize' aerospace 5/21,p19
- Briton cites importance of air defense aircraft 6/11,p123
- British await government policy cue 6/11,p260

Italy
- Equal traffic urged for two-way street 4/9,p15
- Italian industry seeks partners, licenses 6/11,p271

Japan
- Japan defense budget up 2/26,p15
- New programs spur industry 4/16,p75
- Japanese undertaking vast modernization 6/11,p302

Latin America
- Demand spurs Latin American aviation 6/11,p173
- Aviation's role in development of national resources stressed 6/11,p214
- Sales hinge on stability, sanctions 6/11,p307

Sweden
- Sweden debates industry size 6/11,p290

AIR CARGO AND AIR MAIL
- CAB eases regulation of air freight forwarders 2/5,p25
- All-cargo merger bid advances 3/19,p39
- Cargo hearing aims to defuse critics 4/2,p25
- United and Teamster's strikes cripple air cargo system 4/9,p24
- Hauling of checks underwrites Midwest 4/16,p36
- Total air cargo increases 5/7,p26
- Court bars local tax on cargo containers 5/7,p28
- U.S.-Taiwan market stirred service start by Continental 5/14,p26
- Flying Tiger Line adds to capacity 5/21,p43

AIR CUSHION VEHICLES, HYDROFOILS, HOVERCRAFT
- Bell AALC tested for ship fit 1/15,p41
- Boeing hydrofoil to be delivered to Vosper Thornycroft 5/14,p51

AIR DEFENSE SYSTEMS
- Hughes to develop West German air defense system 5/21,p97
- Moroccan system installed 5/28,p106

AIR SHOWS

Helicopter Assn. of America
- Civil use stressed at helicopter show 2/5,p40

Paris
- Paris air show to hit new peaks 4/30,p62
- Barometer rising at Le Bourget 6/11,p21
- Europeans challenge U.S. role 6/18,p16
- Arab officials visit Israeli displays 6/18,p17
- 1979 Paris show not a vintage year 6/25,p9
- Flying displays' future in doubt 6/25,p14

Reading
- Smaller aircraft dominant at Reading 6/4,p59

AIR TRAFFIC CONTROL
- FAA broadens controls 1/1,p27
- General aviation hits ATC rule shifts 1/22,p22
- Wider traffic control budgeted 1/29,p29
- Computer-aided radar displays weather profile 2/19,p81
- Soviet controllers train with simulators 3/5,p25
- FAA speeds alphanumeric readout installation 3/19,p34
- Costs of traffic control shift detailed 3/26,p24
- FAA plans new ATC computer 3/26,p24
- General aviation urges VFR alternates 3/26,p59
- French controllers threaten slowdown 4/9,p25
- PATCO readies court test on immunity switch 4/9,p27
- Firms bid on China ATC 4/16,p27
- North Sea helicopter traffic control set 4/30,p175
- ATC changes proposed 5/7,p55
- Denver suffers ATC failures 5/28,p37
- Efficiency, safety key ATC advances 6/11,p154

AIRCRAFT CARRIERS, SHIPS, SUBMARINES
- Kiev carries new Forger 1/22,p19
- Navy aircraft purchase gains may divert funding for ships 2/19,p23
- Soviet's Minsk carrier now at sea 3/26,p18
- Defense supplemental, carrier cuts asked 4/9,p17
- Swedes select Saab-Bofors RB.15 missile 5/7,p69

AIRCRAFT-SUPERSONIC AND HYPERSONIC
- Mach 4, 200,000 ft. altitude aircraft defined 1/29,p141
- New look at supersonics 4/30,p21

AIRCRAFT-U.S.

Advanced Subsonic Trainer
- Northrop's advanced subsonic trainer concept depicted 1/29,p55

Advanced Tactical Aircraft
- Northrop advanced tactical fighter depicted 1/29,p45

AIRCRAFT—U.S.

Advanced tactical aircraft depicted 1/29,p49
McDonnell Douglas fighter concept shown 1/29,p59

AFTI
F-16 selected for technology program 1/1,p16
Fighter weapons delivery gain stressed 1/29,p68
Variable camber wing being developed 4/30,p163

Ames AD-1
NASA to test pivoting wing concept 5/14,p62

AMST
Lockheed proposed AMST alternatives 3/26,p54
AMST study funded 4/16,p22

Beech 99
Commuter aircraft market grows 5/14,p22

Beech 200
Industry eyes maritime patrol market 2/26,p53

Beech King Air
Smaller aircraft dominant at Reading 6/4,p59

Bell XV-15
Second XV-15 enters flight test phase 5/14,p65

Boeing 707
Omega matures as long-range navaid 1/15,p58
Pan Am plans dual Omega on all 707-300s 1/15,p59
707 redesigned for businessman 4/16,p32
India, PIA to replace aircraft 6/11,p227

Boeing 727
Northwest buys 727-200s 2/12,p30
Cockpit field-of-view standards recommended 2/26,p28
Performance management system certificated 3/12,p206
Southwest adding Dallas-Houston capacity 3/19,p38
Focus narrowing in TWA 727 diving incident 4/16,p28
Continental says it will meet noise deadline 4/23,p26
Boeing believes 727 withstood stress well 4/30,p38
Braniff studying auxiliary fuel tanks for 727 4/30,p42
Approach altitude information urged 4/30,p55

Boeing 737
Four carriers plan Boeing buys 2/5,p23
Quebec and Nordair order 737s 2/12,p30
Lufthansa's 737 to be low-noise 4/2,p29
Airlines purchase 737s 4/30,p36
Singapore sells 737s 6/4,p35
Gulf Air 737-200 in flight 6/11,p223

Boeing 747
Braniff orders Boeing aircraft 1/1,p23
Boeing reopens second 747 final assembly line 1/1,p29
Air France fleet plan calls for new transports 1/15,p32
Pan Am gets sleeper seats 1/22,p27
Four carriers plan Boeing buys 2/5,p23
Engine delays cause late delivery of 747 2/12,p12
Airlines order 747s 2/12,p30
Fan blade tears engine cowling 2/26,p27
TigerAir seeks sales leasing growth 3/5,p27
Airlines buy 747s 3/19,p36
Braniff 747 pilot dies in cockpit 3/19,p36
Korea orders 747s 4/16,p30
British Airways and Flying Tiger purchase 747s 4/30,p36
Flying Tiger Line adds to capacity 5/21,p43
China Airlines ordered 747s 6/11,p222

Boeing 757
GE awarded contract for engine thrust management system 1/1,p26
AiResearch selected for auxiliary power unit for 757, 767 1/8,p23
Sperry awarded contract 1/15,p29
Engineer lack worries Boeing 2/12,p12
Boeing awards 767, 757 contracts 3/5,p26
Firms vie for new programs 3/12,p177
Boeing changes 757 tail configuration 3/12,p205
Boeing 757 range extension sought 4/2,p29
Flight management system adds roles 4/16,p64
Boeing makes cockpit change 5/14,p27
Boeing plans nose change 5/21,p25
Boeing awards subcontracts 6/25,p26

Boeing 767
Grumman 767 work to top $100 million 1/29,p29
767 contracts let 2/19,p27
Boeing names additional 767 subcontractors 2/26,p25
Western Gear Corp. to supply wing leading edge slats for 767 3/19,p37
767 mockup assembled 3/26,p25
Triplex to supply windscreen for 767 4/9,p28
Spaciousness key to 767 flight deck 4/16,p57
Alaska Airlines orders two 767s 4/30,p36
Flight deck of 767 features digital electronic equipment 5/7,p26
Boeing 767 wing attachment completed 5/28,p31
Boeing sells 767 transports 6/18,p40

Boeing B-52
Advanced bomber, missile in definition 1/29,p113
Three programs key in strategic effort 1/29,p133
Northrop awarded contract 2/12,p55
USAF sets new manned bomber studies 3/5,p14
Dispenser modified for ALCM 4/2,p66
Flight tests begin for B-52G modified as missile carrier 5/14,p17

Cessna T-37
USAF, Navy study trainer commonality 2/19,p19

Cessna Citation
Customs seeks more, larger aircraft 3/5,p54

Cessna Conquest
Conquest grounded 6/4,p23

CMCA
Three programs key in strategic effort 1/29,p133

Douglas DC-3
DC-3 modified for naval research 4/30,p171

Fairchild A-10
Combat capability of USAFE growing 4/2,p34
A-10 crews sharpen air support skills 4/2,p37
Adverse-weather A-10 to be evaluated 4/30,p157
A-10 prototype evaluation begins 5/14,p19
A-10 shown at Paris 6/11,p38

Forward-Swept Wing
Rockwell forward-swept wing aircraft depicted 1/29,p45
Forward-swept wing potential studied 1/29,p126

Gates Learjet
Learjet rolls out Longhorn 2/19,p21
Industry eyes maritime patrol market 2/26,p53
Learjet 28 Longhorn claims five world records 3/19,p65
Gates Learjet 54/55/56 first flight completed 5/7,p16
Stall characteristic improvements offered 5/14,p69

General Dynamics F-16
F-16 selected for technology program 1/1,p16
Danes preparing for F-16 transition 1/8,p47
F-16s grounded 1/15,p21
Unified fuel control caused grounding of F-16 1/22,p20
European F-16 delivery scheduled 1/22,p42
Fighter weapons delivery gain stressed 1/29,p68
F-16s to fly to Bodo, Norway 2/5,p20
U.S. studies Iranian F-16 cancellation impact 2/26,p16
Defense Dept. wants canceled Iran F-16s 3/5,p13
Major improvement urged in F-16 radar capability 4/23,p20
Air Force will recommend F-16 systems modifications 4/30,p32
First Dutch F-16 being assembled 4/30,p67
Direct approach to coproduction urged 4/30,p85
Dutch F-16 makes maiden flight 5/14,p15
F101 engine derivative work advances 5/14,p57
F-16 displays combat capabilities 5/28,p16
F-16 to fly at Paris air show 5/28,p21
Government changes help delay Canada's new fighter selection 5/28,p22
F-16 coproduction begins in Europe 6/11,p85
USAF F-16 arrives at Hahn AFB, W. Germany 6/11,p250
Europeans kept abreast of F100 fixes 6/11,p329
U.S. policies thwarting third-country F-16 sales 6/25,p25

General Dynamics F-111
F-111F carries GBU-15 1/29,p177
Australian F-111Cs to be modified for reconnaissance operations 4/30,p90

Gossamer Albatross
Human-powered aircraft readied for Channel flight 3/26,p17
Gossamer Albatross crosses Channel successfully 6/18,p33

Grumman A-6
A-6A testing enhanced lift concept 3/5,p13
A-6A demonstrates circulation control wing 3/12,p85
Circulation control wing demonstrated greater lift 3/19,p58

Grumman F-14
Grumman F-14 fires Sidewinder 4/23,p16

Grumman plans to void Iranian contract 5/14,p73

Grumman Albatross
Albatross refurbished for Chalks Int'l 4/9,p32

Gulfstream American Gulfstream
False statements admitted in Gulfstream sales 1/8,p17
Commuter aircraft market grows 5/14,p22
Gulfstream to expand, sell piston line 5/21,p20

Lockheed C-5
Navy deep submergence rescue vehicle being removed from C-5A 6/11,p98

Lockheed C-130
Japan selects C-130 as mine layer 1/15,p23
U.S. plans arms shipments to North Yemen 3/19,p26

Lockheed CP-140
Aurora for Canada rolls out on time 1/22,p20
Canadian CP-140 tested 4/16,p18

Lockheed L-1011
PSA, Lockheed sue in L-1011 dispute 1/8,p30
Fuel savings in L-1011-500 weighed 4/23,p31
Cockpit automation cuts workload 6/18,p46

Lockheed P-3
New programs spur Japanese industry 4/16,p75
Lockheed drops Paris P-3 display bid 4/23,p23

Lockheed SR-71
Mach 4, 200,000-ft.-altitude aircraft defined 1/29,p141

Lockheed TR-1
Lockheed prepares TR-1 production 6/25,p60

McDonnell Douglas A-4
Hughes offers bomb system proposal 1/8,p51

McDonnell Douglas AV-8
AV-8B funds released 4/2,p16
AV-8B enters development phase 4/30,p31
Renewed interset in AV-8B complicates Navy planning 5/14,p75
Prototype of AV-8B shown at Naval Air Test Center 6/11,p89

McDonnell Douglas DC-9
Alitalia seeks DC-9 replacement 1/8,p27
DC-9 Super 80 nears final assembly 1/8,p28
McDonnell Douglas increases DC-9, DC-10 production rate 1/22,p32
KLM orders thousandth DC-9 2/5,p29
Douglas speeds energy-efficient study 3/26,p27
Five DC-9 Super 80s sold to Argentine airline 4/9,p29
High-performance DC-9 Super 80 studied 4/16,p23
First DC-9 Super 80 enters final assembly phase 5/21,p23
DC-9 Super 80 stretch studied 6/4,p24
Allegheny orders new aircraft 6/18,p34

McDonnell Douglas DC-10
Tire failure on DC-10 cause investigated 2/26,p31
Avionics firms vie for new programs 3/12,p177
Continental revamping DC-10 interiors 4/30,p41
Philippine DC-10 tire failure investigated 5/7,p27
Alitalia orders first DC-10 freighter 5/14,p27
Mexicana picks DC-10 5/21,p50
DC-10 Chicago crash to boost FAA scrutiny 6/4,p12
Boeing, Lockheed prepare for pylon inspection 6/11,p47
KC-10 funding tied to DC-10 problems 6/18,p28
Europe resumes DC-10 service 6/25,p31

McDonnell Douglas F-4
Radar-coupled automatic landing tested 5/7,p57
Congress asked to supply Turkish aid 5/21,p15
Crew chief directs F-4 from shelter 6/11,p111
Germany gears for new fighter effort 6/11,p250
Data transfer unit automates F-4 nav inputs 6/25,p54

McDonnell Douglas F-15
McDonnell Douglas technology demonstrator shown 1/29,p51
Turbine blade shortage delays F-15 maintenance 3/19,p20
F-15 malfunctions shared some factors 4/9,p54
Two-place F-15 to test modified radar 4/16,p62
New programs spur Japanese industry 4/16,p75
First F-15C begins flight tests 5/14,p64
F-15 flies at Paris 6/25,p14

McDonnell Douglas KC-10
KC-10 has refueling boom under tail 1/8,p35
McDonnell Douglas awards KC-10 contracts 4/9,p52
KC-10 funding tied to DC-10 problem 6/18,p28

McDonnell Douglas/Northrop F-18
Government changes help delay Canada's new fighter selection 5/28,p22

Northrop F-5
RF-5E takes off on first flight 2/5,p21
F-5E fuselage modified in reconnaissance role 2/12,p41
Captured F-5Es at airport near Hanoi 3/5,p15
F-5E tested with 30-mm. gun pod 4/30,p168

Northrop T-38
Northrop's advanced subsonic trainer concept depicted 1/29,p55

Northrop/McDonnell Douglas F/A-18
Navy funding bid geared for readiness 1/29,p27
Marines to purchase F/A-18s 2/5,p49
Wooden mockup of F/A-18L at Paris 6/18,p17

Piper Cheyenne
Piper Cheyenne geared for maritime surveillance 3/19,p62

Piper Tomahawk
Short Bros. to produce Piper Tomahawk 4/16,p21

Piper Turbo Dakota
Piper extends turbocharging trend 3/26,p59

Rockwell Advanced Technology Fighter
Mockup of advanced technology fighter on display 6/11,p37

Rockwell International Sabreliner
Raisbeck offers modification 5/14,p68
Sabreliners link Hanna Mining groups 5/21,p87

Swearingen Metro
Scheduled Skyways doubling fleet size 6/4,p28

Tactical Fighter
USAF to request proposals in May for enhanced tactical fighter 4/9,p16

Teal 2
Teal stops amphibian production 5/21,p85

Tri Turbo-3
DC-3 modified for naval research 4/30,p171
Four aircraft pace sea patrol service 6/18,p63

Vought A-7
New anti-armor gun tested in flight 5/28,p56
First ASALM on A-7 checked 6/11,p94
Developmental supersonic missile flown 6/11,p95

Vought F-8
U.S. supplier wins French contract 4/30,p85
NASA research aircraft in lightning tests 4/30,p199

VTX
USAF, Navy study trainer commonality 2/19,p19

AIRCRAFT-INTERNATIONAL

Brazil
EMB-121 Xingu flies over Rio de Janeiro 3/12,p185
Mountain West operating Embraer Bandeirantes 5/7,p38
Demands spur Latin American aviation 6/11,p173
Four aircraft pace sea patrol service 6/18,p63

Canada
Canadair studies Learfan production 4/2,p17
Commuter aircraft market grows 5/14,p22
Canadian aircraft sales increasing 6/11,p167
Challenger and Transporter at Paris 6/18,p22
Challenger flies at Paris 6/25,p17

China, People's Republic
Chinese pushing aerospace technology 6/11,p133

Czechoslovakia
Czechs gear for East Europe sales 6/11,p282

France
Coast Guard program level rises 1/29,p21
Mirage 4000 exceeds Mach 1 3/19,p24
Other nations monitor HU-25A effort 3/19,p62
Fouga 90 to offer performance gains 5/7,p59
Aerospatiale designing AS-35 commuter aircraft 5/28,p24
Mystere-Falcon Gardian displayed at Paris 6/11,p35
Falcon 10/20/50 shown in flight 6/11,p165
AS-35 shown 6/11,p257
Mirage 4000 and 2000 shown 6/11,p257
Profitable share of market foreseen for Fouga 90 6/11,p334
Mirage 2000 prototype flown at Paris 6/18,p19
Mirage 4000 and F1 fly at Paris 6/25,p15

AIRCRAFT—INTERNATIONAL

Germany
Gulfstream American seeks VFW-614 rights 3/19,p28
TKF-90 fighter in final design 4/2,p54
Germans brief U.S. on Fantrainer 4/16,p14
Fantrainer to be demonstrated at Paris 4/30,p75
Dornier shows future tactical fighter 6/11,p38
Scale model of TKF-90 shown 6/11,p251
Dornier new technology transport testbed aircraft shown at Paris 6/18,p18
Do.28 flies at Paris 6/25,p17

Great Britain
East African locusts combatted with modified Islander 1/8,p62
British prepare China drive 1/15,p22
GAO clouds AV-8B fund restoration 2/12,p24
Jetstream aimed at commuter market 2/26,p31
Allegheny to phase out BAC 111s 4/9,p24
Firecracker designed for flight training 4/9,p55
Hawk modifications detailed 4/16,p16
HS.146 fuselage formed 4/30,p167
AV-8B compared to Harrier 6/11,p87
Buccaneer shown during Canadian exercises 6/11,p269

Israel
Atlantic Aviation expects to sell 30 Westwind 1s 6/11,p163
Sea-Scan version of Westwind 1124 shown 6/11,p315
Israeli-Egyptian projects proposed 6/18,p23

Italy
Mockup of S211 at Paris 6/11,p38
Aeritalia Partenavia AP 68 TP at Paris 6/11,p39
P68 shown in flight 6/11,p271
G222s lined up after assembly 6/11,p271

Japan
New engines add Marquise performance 1/1,p46
Japanese detail cost of 1979 military aircraft 3/19,p53
New programs spur Japanese industry 4/16,p75

Netherlands
CFM proposes engine for F-29 1/1,p25
F-28/F-29 configuration nears decision stage 1/22,p34
Super F-28 partners sought 2/19,p25
Deregulation prompts new F-27 sales 6/11,p320

Poland
Soviet, Polish aircraft fly over Baltic 2/5,p16

Sweden
Budget pinch causes cancellation of B3LA 1/22,p18
SK/A38 canceled 5/28,p49
Saab Safari TS shown 6/11,p297

Switzerland
Piranha aircraft in late concept phase 6/11,p326

USSR
Pentagon confirms Soviet look-down tests 1/1,p17
MiG-27s sighted near Havana 1/1,p19
Aeroflot Tu-154B in Laos 1/15,p29
Kiev carries new Forger 1/22,p19
Soviet, Polish aircraft fly over Baltic 2/5,p16
Congress unit warned of Soviet advances 2/12,p22
Soviets developing two bombers, extending range of Backfire 2/19,p14
Chinese-built MiGs shown prior to Vietnamese incursion 2/26,p23
Soviet MiG-27 Floggers operating near Chinese border 3/19,p23
Soviets to field 3 new fighters in modernization drive 3/26,p15
Soviet's Minsk carrier now at sea 3/26,p18
U.S. reexamines fighter needs 4/23,p18
An-24 engines modified 4/23,p27
An-72 STOL prototype debuts in West at Paris air show 6/18,p20
An-28 designed for remote areas 6/18,p24
Brezhnev letter lists Backfire assurances 6/25,p22
Soviets awaiting Il-86 certification 6/25,p69

AIRCRAFT-INTERNATIONAL-CONSORTIUM

A300
Air France fleet plan calls for new transports 1/15,p32
Airbus pursues new approaches to broadening product line 2/5,p24
Laker terms A300 superior 2/5,p24
Garuda orders A300B4-200 3/5,p25
Airbus orders boost Pratt & Whitney sales 3/12,p215
Singapore orders A300s 4/16,p27
Pratt & Whitney-powered A300B makes first flight 5/14,p29
Commuters, Airbus to lead imports 6/11,p210
Orders spurting for Airbus transports 6/11,p231
British build A300 wings 6/11,p241
French digital avionics systems challenge traditional suppliers 6/25,p49

A310
Team agrees on A310 wing design 2/5,p24
Airbus modifying design of A310-100 2/26,p43
Garrett to supply auxiliary power unit for A310 3/19,p37
A310 tested in Switzerland 4/2,p27
Lufthansa, KLM order A310 4/9,p27
Braniff eyeing Airbus possibility 4/23,p30
Development costs increase 5/28,p40
Orders spurting for Airbus transports 6/11,p231

Alpha Jet
Nigerian air force orders 12 Alpha Jets 2/5,p18
Alpha Jet grounding lifted 2/12,p39
Restrictions recommended 4/2,p12
Engine fix cost estimated 4/30,p87
Alpha Jet on test run in Germany 6/11,p72
Model of Alpha Jet in U.S. Navy markings 6/11,p109
Alpha Jet being assemblied at Dornier facility 6/11,p255

Concorde
Concorde receives U.S. certification 1/15,p25
Braniff starts Concorde interchange 1/22,p33
British Caledonian eyes Concorde for London-Atlanta service 2/19,p32
British Airways to receive additional Concorde 4/16,p36
Caledonain seeks Concorde for sunbelt 4/23,p34
Braniff Concorde service profitable 5/28,p29

Jaguar
Jaguar nose gear collapses 6/25,p19

JET
Airbus pursues new approaches to broadening product line 2/5,p24

Tornado
Tornado candidate for enhanced tactical fighter 6/11,p93
Tornado air defense version nears completion 6/11,p267
Tornado flies at Paris 6/25,p18

AIRLIFTS

Airlift rescues thousands in Iran 2/26,p14
MAC equipment sent to Harrisburg following nuclear accident 4/9,p16

AIRLINE BAGGAGE HANDLING

Unclaimed baggage swamps O'Hare 1/15,p28

AIRLINE CHARTER SERVICE

CAB moves toward eased charter rules 3/19,p35
Hauling of checks underwrites Midwest 4/16,p36
Part 125 proposal to hit bigger corporate aircraft 4/30,p43
Group warns of threat to charter operators 5/14,p24
U.S. pushes charter service to China 5/21,p24

AIRLINE DEREGULATION

One airfield yields, another defies FAA 1/22,p26
Uncertainty marks cargo deregulation 1/22,p28
CAB eased regulation of air freight forwarders 2/5,p25
Deregulations route shifts accelerate 2/5,p29
British study deregulation plan 2/12,p34
CAB urges slot hearings 2/26,p28
Aid to employes displaced by deregulation draws fire 3/5,p24
U.S. attempt to spread deregulation challenged 3/12,p159
CAB moves toward eased charter rules 3/19,p35
Deregulation sparks criticism 4/2,p21
Cargo hearing aims to defuse critics 4/2,p25
Deregulation spawns airport burdens 4/9,p29
Deregulation's merger impact weighed by Wall St. analysts 4/16,p26
Airport access key deregulation issue 4/30,p46
Braniff eyes fleet needs in era of deregulation 5/14,p28
Local impact of deregulation argued 5/21,p36
Stainton discusses deregulation 6/4,p7
Air Midwest to exploit deregulation 6/4,p35
Northwest credits deregulation for efficiency gain 6/11,p66
Deregulation prompts new F-27 sales 6/11,p320

AIRLINE FARES, TARIFFS, RATES

Stage set for California air fare regulation showdown 1/1,p28
Price fixing, antitrust charges scrutinized 1/8,p22
IATA hits U.S. threat to ratemaking 1/8,p27
Federal-state court battle intensifies 1/15,p28
Pan Am proposed Australia fares 1/22,p25
Waning board rule underscored in new transcontinental awards 1/22,p32

AIRLINE FARES, TARIFFS, RATES

CAB rejects Airwest fare bid 1/29,p36
Braniff gearing for service to Europe with lower fares 2/5,p23
Hughes Airwest changes premium charge 2/5,p34
Fuel, other costs spark fare rise bids 3/12,p215
Fuel-related rebookings spur CAB fare warning 3/19,p39
Africans weigh own traffic conference 3/26,p26
Price fixing investigation shifts focus 3/26,p35
Court curbs California authority over fares 3/26,p35
U.S., France at standoff on discount 4/2,p26
Proposal by British Airways to increase fares rejected 4/2,p28
IATA approves fare hike in wake of oil price jump 4/9,p26
North Atlantic fare cuts continued by U.S., Europe 4/23,p28
World Airways solving start-up problems 4/30,p34
CAB rejects U.S.-Africa fare boosts 4/30,p40
Singapore anticipates higher Pacific fares 5/7,p32
Texas International to extend Peanuts fares 5/14,p25
United plans discount blitz after strike 5/14,p32
U.S. airlines no longer have antitrust immunity 5/21,p27
U.S., French reach fares agreement 5/21,p28
World calls United fare discriminatory 6/4,p25
CAB to monitor transcontinental discounts 6/11,p61
CAB proposal would relax carrier, travel agent dealings 6/11,p62
Pan Am transcontinental $89 fare introduced 6/18,p36

AIRLINE INCOME, EXPENSE, PROFIT, LOSS

Operating and cost data 747, DC-10, L-1011 third quarter 1978 1/1,p34
Alitalia reports profit 1/22,p33
Airlines tallying 1978 results 2/5,p22
Operating and cost data A300B 2/26,p37
Tiger posts record earnings 3/5,p27
Japanese airlines predict traffic, earnings growth 3/12,p162
Year-end deficit forces El Al service reduction, layoffs 4/16,p30
Airline income, expense 4th quarter 1978 4/30,p59
Fuel, labor costs impact earnings 5/7,p25
United reevaluating earnings forecast 5/7,p25
Airline operating revenues, 1978 5/7,p34
Airline operating expenses 1978 5/7,p35
Operating and cost data 747, A300B, DC-10, L-1011 4th quarter 1978 5/7,p36
Piedmont expects increased revenues 5/7,p38
Pan Am remains optimistic about 1979 5/14,p28
Caledonian reports record profits 5/21,p35
Braniff Concorde service profitable 5/28,p29
Lufthansa reports a profit 5/28,p31
Capital, subsidy improve Air New England outlook 5/28,p40
Operating and cost data 747, DC-10, A300B, L-1011 Fourth quarter 1978, revised 6/4,p36

AIRLINE INDUSTRY-GENERAL

Air France fleet plan calls for new transports 1/15,p32
Protection resurgence fear discussed at symposium 2/12,p26
Iranair begins schedule resumption 3/5,p16
TigerAir seeks sales leasing growth 3/5,p27
Fuel uncertainty dampens optimistic 1979 forecast 3/12,p157
Japanese airlines predict traffic, earnings growth 3/12,p162
Fuel prices plague European airlines 3/26,p26
Braniff pushes global network strategy 4/2,p23
Trans Carib to stress overhead cost cutting 4/30,p55
Singapore emphasizing cabin service on U.S. route 5/7,p30
Braniff eyes fleet needs in era of deregulation 5/14,p28
Pan Am remains optimistic about 1979 5/14,p28
Writer critical of Russian air service 5/21,p49
Soviet official urges action to improve Aeroflot 5/21,p52
Flexi-Van plans Seaboard buy 5/28,p29
Asian airlines eye wide-body aircraft 6/11,p222
SAS ponders new equipment, operations 6/11,p233
Africa emerges as special market 6/11,p249

AIRLINE PASSENGER SERVICES

Lufthansa offers, American drops three-classes 1/1,p27
Three-class amenities attract long-haul route passengers 1/8,p24
CAB moves to provoke carrier smoking action 1/15,p26
Pan Am gets sleeper seats 1/22,p27
CAB member, Eastern clash 4/23,p28
Alaska Airlines introduces gold promotion 4/30,p37

AIRLINE RESERVATION SYSTEMS

Computerized operations gain impetus 5/14,p29
Military to test electronic reservations 6/4,p38

AIRLINE ROUTES

U.S. carriers compete for routes to China 1/1,p25
Continental gears for South Pacific service 1/1,p26
Lufthansa offers, American drops three-class 1/1,p27
Route entry protection filings start 1/8,p22
Three-class amenities attract long-haul route passengers 1/8,p24
Aeroflot adds 50 routes 1/15,p24
Waning board rule underscored in new transcontinental awards 1/22,p32
Five U.S. carriers given broad rights in Germany 1/29,p36
Braniff gearing for service to Europe with lower fares 2/5,p23
New Orleans service marks Southwest's interstate entry 2/5,p25
Deregulation's route shifts accelerate 2/5,p29
U.S.-China air service delay forecast 2/5,p34
TWA to drop Geneva 2/19,p27
British Caledonian eyes Concorde for London-Atlanta service 2/19,p32
Pan Am bids for routes in Middle East and Mediterranean 3/19,p36
Southwest adding Dallas-Houston capacity 3/19,p38
Transatlantic trends examined 4/2,p7
Deregulation sparks criticism 4/2,p21
Western to keep network, stress utilization 4/2,p22
Braniff pushes global network strategy 4/2,p23
Fuel situation dampens Tiger expansion plans 4/16,p24
CAB grants new routes 4/23,p31
Caledonian bids for new U.S. gateways 4/23,p34
World Airways solving start-up problems 4/30,p34
Alaska Airlines introduces gold promotion 4/30,p37
IATA surveys deviations of air routes 4/30,p40
CAB law judge awards Texas authority 4/30,p46
Singapore emphasizing cabin service on U.S. route 5/7,p30
Piedmont seeking new markets 5/7,p38
U.S.-Taiwan cargo market stirred Continental service 5/14,p26
Continental inaugurated S. Pacific services 5/14,p30
British upgrade Mideast service 5/21,p24
Continental expanding Hawaiian operations 5/21,p25
'Essential services' definition elusive 5/21,p41
World transcontinental service gains 5/21,p45
Alia delays transatlantic flights 5/21,p49
Cruz discusses growing Pacific market 5/28,p11
Icelandic nonstop bid sparks protests 6/4,p26
New service to Florida proliferates 6/11,p63
Latest expansion by Allegheny involves 23 route inaugurations 6/11,p64

AIRLINE SHORT HAULS AND COMMUTERS

FAA issues Part 24 proposals 1/15,p32

AIRLINE SUBSIDIES

New Orleans service marks Southwest's interstate entry 2/5,p25
Commuters gearing for growth 2/26,p25
Jetstream aimed at commuter market 2/26,p31
Loan backing urged 4/9,p28
Albatross refurbished for Chalks Int'l 4/9,p32
Fuel lack threatens commuter service 4/30,p50
Commuter aircraft market grows 5/14,p22
Resorts Int'l to provide assistance to Antilles Air Boats 5/21,p36
Capital, subsidy improve Air New England outlook 5/28,p40
Shuttle traffic surge puzzles Eastern 6/18,p37

AIRLINE SUBSIDIES

Per capita tax studied to pay carrier subsidy 2/19,p36
CAB seeks subsidy comment 6/11,p63

AIRLINE TRAFFIC

Weather snarls holiday traffic 1/8,p20
Airline traffic signals strong economy 1/15,p27
Japanese airlines predict traffic, earnings growth 3/12,p162
First quarter traffic surges 4/16,p23
Airlines show big April traffic gains 5/14,p25
Gasoline shortage could spur air traffic 5/14,p27
World transcontinental service gains 5/21,p45

AIRLINE TRAFFIC STATISTICS

North Atlantic passenger traffic August 1978 1/1,p30
Trunk, local service on-time performance September 1978 1/1,p31
North Atlantic passenger traffic September 1978 1/1,p31
Trunk, local service on-time performance October 1978 1/8,p30
Airline traffic October 1978 1/15,p34
North Atlantic passenger traffic Oct. 1978 2/5,p32
Airline traffic November 1978 2/5,p33
Trunk, local service on-time performance Nov. 1978 2/19,p32
North Atlantic passenger traffic Nov. 1978 3/5,p30
Airline traffic December 1978 3/19,p40
Trunk, local service on-time performance Dec. 1978 3/26,p31
Airline traffic 1978 3/26,p38
Airline traffic January 1979 4/2,p30
North Atlantic passenger traffic Dec. 1978 4/9,p28
Trunk, local service on-time performance Jan. 1979 4/30,p56
Airline traffic February 1979 4/30,p57
Trunk, local service on-time performance Feb. 1979 5/14,p32
Airline traffic March 1979 6/25,p38

AIRPORTS

Delta County (Escanaba, Mich.)
Gulls imperil airport 5/7,p24
Changi International Airport (Singapore)
New Singapore airport set for 1981 5/21,p35
Dallas/Ft. Worth
Braniff expands facilities at Dallas/Ft. Worth 6/11,p62
General
CAB urges slot hearing 2/26,p28
Private airport aid sought 4/9,p67
New airport bill to help private reliever facilities 4/23,p24
Heathrow (London)
Snow hits Heathrow 1/15,p26
Carriers rap snow removal at Heathrow 1/22,p26
Hollywood-Burbank Airport
Lockheed earnings reflect airport sale 2/26,p16
Los Angeles International Airport
Lawsuit aimed at airport soliciting 2/5,p25
Inflatables eyed for Los Angeles terminal annex 2/26,p31
Airport plans air-supported structures 6/11,p64
Miami International
Pan Am plans flight training center in Miami 4/2,p67
Munich-Reim Airport
Munich Airport plans stir opposition 1/22,p29
Newark International
World Airways moving operations to Newark 3/19,p37
O'Hare International (Chicago)
Unclaimed baggage swamps O'Hare 1/15,p28
Storm again closes O'Hare 1/22,p24
Roberts International (Monrovia)
Roberts development plan progresses 1/22,p56
Stapleton International (Denver)
Denver suffers multiple ATC failure 5/28,p37

ALERTING SYSTEMS

Cockpit alert standardization urged 5/21,p99

ANTITRUST ACTIONS

Scrutiny of agent fees looms 3/19,p34

ASSOCIATIONS

AIAA
Space policy discussion stresses solid goal need 2/19,p52
Exposition to cover six areas 2/26,p51
African Airlines Assn.
Africans weigh own traffic conference 3/26,p26
Air Charter Tour Operators Assn. of America
Group warns of threat to charter operators 5/14,p24
Arab Organization for Industrialization
AOI scuttling reverberates in Europe 5/21,p22
Egyptian military needs remain substantial 6/11,p317
European Economic Community
European defense unity pushed 3/5,p12
Common Market to get aircraft proposal 3/26,p32
European Space Agency
ESA details economic benefits to industry 1/15,p44
General Aviation Manufacturers Assn.
General aviation expects record year 2/12,p60
IATA
IATA hits threat to ratemaking 1/8,p27
Pan Am drops IATA 2/5,p26
Less fuel, doubled prices foreseen by IATA 4/9,p26
IATA implementing its new structure 5/21,p28
Styles joins IATA 5/28,p32
Independent European Program Group
European defense unity pushed 3/5,p12
Intelsat
Intelsat at critical crossroads in radio frequency control 6/11,p343
International Federation of Air Line Pilots' Assn.
IFALPA to boycott two-man-cockpit aircraft 3/26,p32
International Maritime Satellite Organization
U.S., Soviets subscribe to 51% of maritime satellite network 5/21,p63
Organization for Economic Cooperation and Development
Tougher aircraft financing terms unlikely 1/8,p20
PATCO
PATCO readies court test on immunity switch 4/9,p27

AUXILIARY POWER UNITS

AiResearch selected for auxiliary power unit for 757, 767 1/8,p23
Reliability key to engine power unit 5/14,p63

AVIONICS

Sperry awarded Boeing avionics contract 1/15,p29
New technology guides avionics work 1/29,p183
Weapons system capabilities explored 1/29,p186
Avionics simulator offers total environment test 1/29,p189
Forward-looking technology explored 1/29,p195
Device tests for impurities 1/29,p206
Patterns etched on integrated circuits 1/29,p209
New avionics equipment for helicopters displayed at HAA show 2/5,p43
Complex-function single chips emerge 3/12,p167
Complex microcircuitry may impact general aviation avionics 3/12,p171
Avionics firms vie for new programs 3/12,p177
French supporting formation of avionics company 3/19,p71
Voltage alters colors of panel indicator 4/2,p73
Advanced flight decks gain acceptance 4/23,p60
Hungary seeks aircraft, airport equipment 4/30,p62
A-10 avionics suppliers listed 4/30,p158
Cost of built-in testing drops sharply 4/30,p189
Trajectory control system advances 5/28,p93
Reading avionic displays draw crowds for training devices 6/4,p61
French digital avionics systems challenge traditional suppliers 6/25,p49

AWARDS, HONORS, ELECTIONS, RECORDS

Laurels for 1978 1/1,p9
Learjet 28 Longhorn claims five world records 3/19,p65
Sam B. Williams awarded Collier Trophy 4/16,p22
Banks wins Wilkinson/Curtis award 5/7,p17
Gossamer Albatross crosses Channel successfully 6/18,p33
First Curtis Wilkinson Award presented to Air Commodore F. R. Banks 6/25,p75

BALLOONS

Balloon plots upper winds 1/29,p215
Staring mosaic sensor tested in high-altitude USAF balloon 6/18,p56

BEAM WEAPONS

Beam weapons effort to grow 4/2,p12
Beam weapon impact called uncertain 4/30,p28
U.S. beam policy reversed 5/7,p7

BUSINESS FLYING

Business and utility aircraft shipments Nov. 1978 1/15,p66
General aviation hits ATC rule shifts 1/22,p22
General aviation raps tax bid 1/29,p22
General aviation expects record year 2/12,p60
Business and utility aircraft shipments Dec. 1978 2/12,p63
Business and utility aircraft shipments Jan. 1979 3/5,p56
General aviation sales to grow 3/12,p187
European business aircraft outlook bright 3/12,p187
Business and utility aircraft shipments February 1979 3/26,p58
General aviation urges VFR alternates 3/26,p59
Part 24 comment period, review meeting delayed 4/9,p67
U.S. business and utility aircraft shipments 1978 4/16,p80
Obstacles fail to halt growth trend 4/23,p53
Part 125 proposal to hit bigger corporate aircraft 4/30,p43
Industry sees benefits in tariff pact 4/30,p171
Business and utility aircraft shipments March 1979 5/7,p63
Commuter aircraft market grows 5/14,p22
Gulfstream to expand, sell piston line 5/21,p20
Industry seeks lighter aircraft weight 5/21,p77
Sabreliners link Hanna Mining groups 5/21,p87
Lider expansion linked to energy search 5/21,p87
Smaller aircraft dominant at Reading 6/4,p59
Medical certificates renewal proposal 6/4,p60
General aviation imports grow in U.S. 6/11,p163
Business and utility aircraft shipments April 1979 6/18,p62

CHEMICAL WARFARE

USAF prepares for chemical threat 4/2,p35

CHINA PEOPLE'S REPUBLIC

Chinese officials view U.S. aerospace technology 2/12,p16
Bell hopes for further helicopter sales to China 2/26,p21
Chinese tour U.S. telecommunications plants 3/26,p53
China trade faces uncertain future 5/21,p23
U.S. pushes charter service to China 5/21,p24

COLLISION AVOIDANCE SYSTEM

Collision avoidance preferences diverge 1/1,p29

COMETS

Comet instrument development questioned 1/15,p18
European group agrees to comet mission role 2/26,p20

COMMAND AND CONTROL

Mitre guides defense C³ revolution 2/19,p73
Smaller nations seek command, control, communications help 4/30,p88

COMMUNICATIONS

Europeans plan regional communications satellite 5/28,p80
Radio spectrum bid called modest 6/11,p339
Intelsat at critical crossroads in radio frequency control 6/11,p343

COMPUTERS AND DATA PROCESSING SYSTEMS

Computers analyze cost-effectiveness 1/29,p194
Intelligence fusion, distribution pushed 1/29,p205
Computer development time being cut 2/26,p67
Factory of the future researched 3/5,p35
FAA speeds alphanumeric readout installation 3/19,p34
Digital CRTs being installed at Western Test Range 3/19,p66
FAA plans new ATC computer 3/26,p24
Univac awaits Soviet cancellation notice 4/16,p17
Computerized operations gain impetus 5/14,p29
Defense seeks secure time sharing 5/14,p51

CONVENTIONS, CONFERENCES, MEETINGS, SYMPOSIUMS

Protection resurgence fear discussed at International Aviation Symposium 2/12,p26
AIAA exposition to cover six areas 2/26,p51
Flight safety symposium draws large crowd 5/14,p68
British, German defense ministers to meet 5/21,p17
U.S. radio spectrum bid called modest 6/11,p339

COOLANTS

Liquid-cooled missile nosetips tested 3/5,p53

CORRECTIONS

ESG-Elektronik-System-Gesellschaft subcontractor for AWACS 1/8,p19
Unified fuel control causes grounding of F-16 1/22,p20
Hughes prime contractor for GBU-15 2/5,p21

COVERS

Anik-B emerges from test chamber 1/1
First Belgian air force F-16 1/8
Sikorsky S-76 production line 1/15
Shuttle heat pipe system 1/22
Grumman forward swept wing 1/29
First two MU-300 prototypes fly in formation off Japan 2/5
Rockwell forward-swept wing mockup 2/12
New NASA aerodynamic technology model 2/19
Gates Learjet special mission demonstrator 2/26
USAF/NASA/Rockwell HIMAT RPV shown being moved 3/5
Ground-launched Tomahawk missile 3/12
Shuttle solid rocket tested 3/19
NASA/Lockheed YO-3A in noise test with Bell AH-1S 3/26
A-10 in lizard paint scheme 4/2
STOL fighter model shown in Ames wind tunnel 4/9
Army/Rockwell Hellfire launched from AH-1G 4/16
Vought general support rocket system firing from mobile launcher 4/23
Mirage F1 with Magic Super 530 missile 4/30
Tomahawk launch from torpedo tube 5/7
Enterprise shuttle on Pad 39A 5/14
General Electric tests 3-D radar 5/21
V/STOL blown lip inlet test installation 5/28
Gates Learjet Series 50 prototype in flight test 6/4
First Lockheed/Canadian forces CP-140 6/11
Salyut 6/Soyuz 31 docked in space 6/18
Ariane propellant mockup shown at Paris 6/25

DISPLAYS

Digital CRTs being installed at Western Test Range 3/19,p66
Cockpit display of aircraft tire pressure developed 5/7,p46
LED displays being evaluated by USAF 6/18,p73

DRONES AND RPVs

Harassment drone plan stresses cost 1/29,p141
MBB, Dornier minidrone plans advance 2/19,p84

EDITORIALS

New recovery system eyed for missiles 3/5,p51
Small, inflated-wing RPV demonstrated 3/26,p57
Navy receives first BQM-74C drone 4/23,p57

EDITORIALS

Laurels for 1978 1/1,p9
Outlook for 1979 1/8,p7
Soviet space puzzle 1/15,p7
Another sparce space budget 1/22,p9
New technology thrust explored 1/29,p11
Clements discusses national security 2/5,p7
Michener discusses importance of space policy 2/12,p7
Cousins discusses importance of space exploration 2/19,p9
Gen. Lew Allen discusses SALT 2/26,p9
Public supports space 3/5,p7
Robust 1979 ushers in continued aerospace growth 3/12,p8
Rear Adm. Shapiro discusses America's challenge at sea 3/19,p9
Bucy discusses controlling export of technology 3/26,p9
Transatlantic trends examined 4/2,p7
Voyager mission called triumph and tragedy 4/9,p9
Gen. Haig discusses global Soviet threat 4/16,p9
U.S. entering defense crisis 4/23,p11
New look at supersonics 4/30,p21
U.S. beam policy reversed 5/7,p7
Sen. Nunn discusses effects of SALT on NATO 5/14,p9
Notes on New Zealand 5/21,p9
Cruz discusses growing Pacific market 5/28,p11
Stainton discusses deregulation 6/4,p7
Barometer rising at Le Bourget 6/11,p21
Europe's exports surge 6/18,p11
1979 Paris show not a vintage year 6/25,p9

EJECTION SEATS

Navy center tests new ejection seats 2/26,p38

ELECTRONIC WARFARE

EMI Searchwater radar delivered for Nimrod 1/15,p62
New electronic warfare techniques being developed 1/29,p106
Electronic technology aims changed 1/29,p221
Northrop awarded contract 2/12,p55
Advanced defense electronics studied 2/12,p58
Mitre guides defense C³ revolution 2/19,p73
Cost of built-in testing drop sharply 4/30,p189
Electronic warfare system exports gain 6/25,p43

ENERGY SOURCES

Lockheed-designed sea-based power plant dedicated 6/11,p328

EVACUATION SYSTEMS

Medical evacuation system developed 4/16,p77

EXPORTS AND IMPORTS

Chinese shifting buying tactics 1/1,p23
Tougher aircraft financing terms unlikely 1/8,p20
Civilian helicopter sales setting records 1/15,p12
U.S. may ease electronics export restrictions 1/15,p20
Difficult aircraft issues still open in trade pact 1/15,p22
British prepare China drive 1/15,p22
Carter seeks budget authority for foreign military sales 2/5,p51
British borrowing rules could force new equipment cutback 2/12,p34
Brazil's import duty intentions watched 2/19,p22
Bell hopes for further helicopter sales to China 2/26,p21
Arms transfers gain 3/5,p46
Large transports to pace U.S. exports 3/12,p49
Brisk transport sales forecast 3/12,p147
Industry seeks formal export right 3/19,p27
DOD civil export control role urged 3/19,p27
Trade Dept. urged in Senate report 3/19,p28
Bucy discusses controlling export of technology 3/26,p9
Potential military sales blocked 3/26,p68
Equal traffic urged for two-way street 4/9,p15
'Critical technologies' approach to civil export control opposed 4/9,p17
Report finds arms restraint in trouble 4/16,p17
Aircraft trade pact raises questions 4/23,p25
Delays on export licenses irk industry 4/30,p67
Industry leaders rap U.S. export policy 5/7,p19
Grumman plans to void Iranian contract 5/14,p73
Congress asked to supply Turkish aid 5/21,p15
China trade future uncertain 5/21,p23
Missile technology transfer questioned 5/28,p101
U.S. military sales policy seen aiding other nations 5/28,p105
Export competition keynotes Paris air show 6/11,p26
Update of U.S. export controls urged 6/11,p119
General aviation imports grow in U.S. 6/11,p163
Commuters, Airbus to lead imports 6/11,p210
Europe's exports surge 6/18,p11
Electronic warfare system exports gain 6/25,p43

FEE ALLEGATIONS

False statements admitted in Gulfstream sales 1/8,p17
McDonnell Douglas agrees to investigation by panel 1/8,p25
Japanese parliament debate on Grumman likely to be hot 2/26,p66
Japanese sales agent's dealings investigated 4/9,p59
Documents detail alleged bribes 5/7,p24

FLIGHT DECKS

Advanced flight decks gain acceptance 4/23,p60
Flight deck of 767 features digital electronic equipment 5/7,p26
Cockpit alert standardization urged 5/21,p99

FLIGHT INSTRUMENT SYSTEM

Backup 'partial panel' being developed 6/4,p65

FLIGHT MANAGEMENT SYSTEM

Flight management system adds roles 4/16,p64

FUELS

Fuel cost rise forecast for airlines 1/1,p24
Fuel-saving propeller tested 1/15,p24
Synthetic fuels research emphasized 1/29,p71
Fuel shortages force flight cancellations 2/19,p25
Fuel-generated flight cuts continue 2/26,p26
Fuel shortages hit Kansas City 3/5,p24
Fuel uncertainty dampens optimistic 1979 forecast 3/12,p157
Fuel, other costs spark fare rise bids 3/12,p215
Fuel related rebookings spur CAB fare warning 3/19,p39
Fuel prices plague European airlines 3/26,p26
Douglas speeds energy-efficient study 3/26,p27
IATA members expect big hike in price of fuel 4/2,p28
IATA approves fare hike in wake of oil price jump 4/9,p26
Fuel situation dampens Tiger expansion plans 4/16,p24
Fuel lack threatens commuter service 4/30,p50
Fuel, labor costs impact earnings 5/7,p25
Gasoline shortage could spur air traffic 5/14,p27
Assuring Mideast oil flow seen difficult 5/14,p73
Alia delays transatlantic flights 5/21,p49
Lider expansion linked to energy search 5/21,p87
Joint 'spot' market buying in discussion 5/28,p30
Manufacturers developing fuel-efficiency engines 5/28,p46

GENERAL SUPPORT ROCKET SYSTEM

General support rocket system tested 1/8,p16
Army plans rocket system shootoff 1/15,p63
GSRS prepared for testing 2/26,p64
GSRS shown prior to launch 3/5,p50
Boeing GSRS test fired at White Sands 4/16,p19
Bomblet dispersal pattern revealed in GSRS test 6/11,p345

GYROS

FAA certificates Aeritalia gyros 1/1,p52

HELICOPTERS-U.S.

Advancing Blade Concept
Research helicopter begins flight tests 2/26,p24
Advanced Scout Helicopter (ASH)
Scout helicopter proposal request set 1/15,p23
Bell 212
Petroleum Helicopters buys Bell helicopters 2/19,p22
Bell hopes for further helicopter sales to China 2/26,p21
Bell 222
Bell 222 at HAA show 2/5,p41
Bell presses Model 222 certification 4/2,p44
First production Bell 222 assembled 5/28,p27
Bell 412
ERA takes options for Bell 412 2/5,p42
Bell UH-1
Review of helicopter liability case denied 1/1,p20
Bell JetRanger
Bell sells helicopters to Petroleum Helicopters 2/19,p22
Bell LongRanger
LongRanger operated by Great Lakes Helicopter 1/15,p13
Pollution filter hoisted by LongRanger 1/15,p15
Bell sells helicopters to Petroleum Helicopters 2/19,p22
Medical evacuation system developed 4/16,p77
Boeing Vertol CH-47
CH-47D undergoing engine, rotor tests 5/14,p21
Boeing Vertol Chinook
Chinook shows cabin configured for 44 people 1/15,p12
Enstrom 280
280L Hawk in flight display 2/5,p40
General
Civilian helicopter sales setting records 1/15,p12
Civil use stressed at helicopter show 2/5,p40
U.S. helicopter superiority threatened 3/12,p193
Hughes 500
Viking Helicopters Hughes 500D has cargo pod 1/15,p14
Quiet helicopter expected to be certificated 2/5,p45
Helicopter camera system aids in TV news gathering 4/16,p83
Hughes AH-64
YAH-64 testing Hellfire antitank missile 4/16,p49
Schedule slip in AH-64 forecast 6/11,p42
AAH effectiveness questioned by GAO 6/11,p351
ITAV
U.S. Army orders individual tactical air vehicles 1/15,p23
Lamps
GAO hits Navy's Lamps ship planning 1/8,p18
Minimal effects seen in Lamps changes 2/12,p52
Robinson R-22
Robinson helicopter nears certification 2/5,p45
Robinson helicopter certificated 3/26,p17
Sikorsky S-61
FAA issues S-61 directive 4/30,p40
Helicopter simulator flies in Scotland 4/30,p175
Sikorsky S-76
Sikorsky withdraws Coast Guard bid 4/2,p20
Sikorsky helicopter serving oil rigs 4/9,p67
Sikorsky XH-59
Research helicopter begins flight tests 2/26,p24

HELICOPTERS-INTERNATIONAL

France
Two SA 365C Dauphins in flight 1/15,p16
TwinStar development set 1/22,p18
Aerospatiale booking Twinstar orders 4/30,p36
Coast Guard selects Dauphin helicopters 6/18,p33
Great Britain
WG.30 helicopter makes first flight 6/11,p323
WG.30 flies at Paris 6/25,p16
Westland offers new helicopter design 6/25,p61
Italy
Agusta 109A at HAA show 2/5,p42
Agusta 109A destroyed in accident 6/18,p83
USSR
Soviet Hind D fires antitank missile 5/28,p26

HIJACKING, ESPIONAGE, SABOTAGE

Terrorists jailed following hijackings 1/22,p21
Hijacking of United 747 thwarted in New York 2/5,p20
Antiterror bill opposed by administration 2/19,p24
Edler Industries convicted again in technology transfer 2/26,p44
TWA bombing investigated 4/2,p28
Hijackings increase 6/4,p38
Hijacker admitted to L-1011 cabin by crewman 6/18,p28

JUPITER

Voyager 1 details Jupiter's moons 2/12,p20
Voyager 1 readied for Jupiter encounter 2/19,p50
Voyager images reveal Jovian details 3/5,p19
Scientists sift massive Jupiter data 3/12,p200
Jovian volcanoes detected 3/19,p14
Voyager mission called triumph and tragedy 4/9,p9
Voyager images active volcanoes on Io 4/16,p44
Voyager images Ganymede, Amalthea 6/11,p338
Voyager discovers charged particles envelope 6/25,p77

LABOR, EMPLOYMENT, WAGES

Wage, price rules retain termination clause 1/8,p14
Beech adds workers 1/8,p17
Boeing expects jump in workforce 1/8,p21
Engineer lack worries Boeing 2/12,p12
U.S. firms increase foreign hirings 2/12,p15
Boeing rents talent 2/12,p15
Pilot hiring forecast to dip in 1979 2/12,p30
European firms seek skilled workers 2/19,p21
Aid to employes displaced by deregulation draws fire 3/5,p24
Enstrom Helicopter implements layoffs 3/12,p213
Labor Dept. freezes foreign hirings 3/26,p22
Pilots again attack age 60 retirement 3/26,p31
Year-end deficit forces El Al service reduction, layoffs 4/16,p30
Aerospace industry employment figures listed 4/30,p82
Pacific Southwest eyes early contract parleys 5/7,p29
Singapore Airlines depends on expatriate pilots 5/7,p31
Labor Dept. to establish federal registry for aerospace engineers 5/14,p20
United machinists approve agreement 5/28,p37
Hughes, Ozark mechanics seek greater gains than United 6/4,p25

LANDING FEES

Brazil increases airways charges 4/2,p21

LASERS

Laser test facility to be built 1/1,p18
SAMSO to test laser communications receiver 1/8,p13
NKC-135 airborne laser laboratory shown 1/29,p42
Access panel struck by high-energy laser beam in test 1/29,p60
Tactical space communications pushed 1/29,p145
Atmospheric ions studied 1/29,p197
Navy to adapt projectile for use against surface targets 4/16,p73
High-energy lasers require optical assembly advances 5/21,p95
Mini-laser makes range measurements 6/25,p49

LAUNCH SITES, SILOS, BASES

Basing concepts could violate SALT 2/12,p22
Western shuttle facility plan changes 3/5,p40
Zaire terminates rocket launch site pack 5/7,p18
U.S. to spend $1 billion on Israeli bases 6/11,p341

LAUNCH VEHICLES

Ariane
Ariane delayed 1/22,p17
ESA evaluates shifting Ariane program to commercial group 3/5,p38
Ariane launch vehicle mockup displayed 6/11,p31
French plan Ariane improvements 6/18,p26
French planning Ariane future 6/25,p91
USSR
Soviet space booster's return rehearses U.S. net for Skylab 5/7,p22

LEASING, LICENSING, POOLING

LEASING, LICENSING, POOLING

TigerAir seeks sales, leasing growth 3/5,p27
Little effect expected from cancellation of leasing plan 5/21,p43

LEGAL ACTIONS

PSA, Lockheed sue in L-1011 dispute 1/8,p30
Lawsuit aimed at airport soliciting 2/5,p25
New York Airways amends Sikorsky lawsuit 5/14,p26

MACHINE TOOLS

Delivery times lengthening for machine tool industry 4/9,p50

MAINTENANCE, OVERHAUL, REPAIR

Offshore Logistics to provide helicopter service 2/5,p43
Turbine blade shortage delays F-15 maintenance 3/19,p20
Fatigue strength study to improve test procedures 4/16,p53
Swedes develop small aircraft lift 4/30,p78
Saudia expanding maintenance facility 6/11,p211

MANAGEMENT

Haig to resign 1/8,p19
Rolls wants bigger U.S. market share 1/8,p61
Government buys 21% of Dassault 1/22,p18
Hod resigns as head of E1 Al 1/29,p36
Performance overseers play key role 1/29,p252
Pilatus to renegotiate agreements 2/5,p18
Airbus pursues new approaches to broadening product line 2/5,p24
USAF procurement policies revised 2/5,p50
California companies building plants 2/12,p18
McDonnell Douglas authorizes record capital facilities budget 2/12,p18
Pentagon seeks to curtail development times, costs 3/12,p213
World Airways moving operations to Newark 3/19,p37
Airlines face contract expirations 4/9,p23
Boeing expanding final assembly facility 4/9,p34
Short Bros. to produce Piper Tomahawk 4/16,p21
Need statements procedure shows progress 4/16,p53
Rockwell reorganizes military divisions 4/30,p88
Annual astronaut selection planned 5/7,p23
Gray criticizes foreign economic policies 5/7,p67
Levine named by CAB to steer its international aviation policy 5/21,p29
New York Airways filing for bankruptcy proceedings 5/21,p29
Styles joins IATA 5/28,p32
NASA forms study team 5/28,p67
Airwest sale considered 6/11,p60

MANUFACTURING TECHNOLOGY

Factory of the future researched 3/5,p35

MATERIALS

New fibers developed for composites 1/8,p35
Carbon fiber replacements developing 1/22,p49
Structural materials focus heightens 1/29,p227
Air Force unit studies composites 2/12,p39
Bell pursues tests without NASA aid 2/26,p42
Carbon fiber hazard concerns NASA 3/5,p47
Composites use in Tornado to be expanded 4/2,p54
Material for reentry vehicles needed 4/16,p15
Boeing visiting Japan 4/30,p32
Multifunction materials pushed for space use 5/28,p67
Aeritalia composite technology progresses 6/11,p277

MERGERS AND ACQUISITIONS

Court bars further Tiger stock buy 1/8,p25
Court lifts ban on Tiger tender offer 1/22,p29
Pilatus to renegotiate agreements 2/5,p18
Battle for control of National intensifies 2/5,p26
National bidding scheme sparks dissension 2/19,p24
Western deplored merger opposition 2/19,p29
PSA, Valhi seek acquisition solution 2/26,p24
National bids on Texas International 2/26,p26
North Central, Southern link approved 2/26,p32
Texas International offers new merger deal 3/5,p26
All-cargo merger bid advances 3/19,p39
Western, Continental merger plan advances 4/2,p24
Advisors meet to discuss Texas International, National merger 4/2,p24
Eastern seeks National's fleet not routes 4/2,p29
National merger opposed 4/9,p25
CAB expected to alter ruling in National merger 4/16,p25
CAB to make clear soon its airline merger policy 4/23,p30
North Central-Southern merger nears 4/30,p39
Eastern purchase of National would violate antitrust standards 4/30,p39
CAB action on National merger delayed 5/7,p28
Texas Int'l to extend Peanuts fares 5/14,p25
Resorts Int'l to provide assistance to Antilles Air Boats 5/21,p36
Merger hopes boosted for Continental/Western 5/21,p45
Fairchild directors agree to acquisition plan 5/28,p26
Flexi-Van plans Seaboard buy 5/28,p29
Comsat acquires Environmental Research & Technology, Inc. 5/28,p69
Airwest sale considered 6/11,p60

MICROCIRCUITS

Complex-function single chips emerge 3/12,p167
Soviets narrowing microcircuits gap 3/19,p66
GE emphasizing complex microcircuits 3/26,p62
IBM cutting microcircuit device sizes 4/2,p70

MICROPROCESSORS

British microprocessor to eliminate space suit umbilicals 5/14,p46

MIDDLE EAST

Iran cancels Bell contract 1/1,p22
Aerospace firms slow work in Iran 1/8,p15
Carter questions loss of intelligence stations in Iran 1/22,p23
Non-essential U.S. personnel continue evacuation from Iran 2/5,p20
Iranian arms cuts spur buyer search 2/12,p19
Airlift rescues thousands in Iran 2/26,p14
Iran to resume purchase of U.S. civil transports 3/5,p16
U.S. plans arms shipments to North Yemen 3/19,p26
Treaty involves $4.5 billion in arms 3/26,p22
Treaty sets strengths, withdrawals 4/2,p15
Iranian trust fund being depleted 4/23,p19
Iranian monitor loss minimized 4/30,p30
U.S. monitoring capability impaired 5/14,p18
Assuring Mideast oil flow seen difficult 5/14,p73
AOI scuttling reverberates in Europe 5/21,p22
British upgrade Mideast service 5/21,p24
Egyptian military needs remain substantial 6/11,p317
U.S. to spend $1 billion on Israeli bases 6/11,p341
Arab officials visit Israeli displays 6/18,p17
Israeli-Egyptian projects proposed 6/18,p23

MISSILES-U.S.

ABM

U.S. to test ABM system with MX 3/19,p23

ALCM

Dispenser modified for ALCM 4/2,p66

AMRAAM

NATO participation expected in AMRAAM 1/29,p83
Technicians install wings and tail fins on AMRAAM 2/12,p23
Weapons family concept backed 4/9,p14

ASALM

Three programs key in strategic effort 1/29,p133
ASALM on A-7 checked 6/11,p94

ASRAAM

Weapons family concept backed 4/9,p14

Cruise
Advanced bomber, missile in definition 1/29,p113
Cruise missile flight testing stressed 1/29,p147
Air Force seeks new hydraulic systems 2/19,p69
Cruise missile transporter erector-launcher tested 5/7,p22
Missile technology transfer questioned 5/28,p101

General
Rockwell and McDonnell Douglas air-to-air missiles studied 1/29,p71
Inventory shifts raise missile spending 3/12,p35

Hawk
Belgium plans buy of Hawk missile 2/5,p20

Hellfire
YAH-64 testing Hellfire antitank missile 4/16,p49
Decision on Hellfire expected next year 4/16,p69

Longbow
Two new ballistic missiles scrutinized 1/29,p101

Minuteman
USAF erects encapsulated Minuteman 6/25,p24

MX
Air Force restudying MX basing plan 1/15,p21
Two new ballistic missiles scrutinized 1/29,p101
U.S. to test ABM system with MX 3/19,p23
Upcoming review of MX covers data on impact 4/9,p16
Acceptable basing mode for MX sought 5/21,p14
Committee clears defense bill 5/21,p21
MX decision spurs pressure on basing 6/18,p27

Pershing
Two new ballistic missiles scrutinized 1/29,p101

Sidewinder
F-14 fires Sidewinder, destroys drone 4/23,p16
Sidewinder consortium agreement reached 5/21,p19

SRAM
Dispenser modified for ALCM 4/2,p66

Supersonic Tactical Missile
Navy set to begin rocket/ramjet tests 4/2,p69
Developmental supersonic missile flown 6/11,p95

Tomahawk
Cruise missile flight testing stressed 1/29,p147
Smaller Tomahawk model being studied by Navy 6/25,p23

Trident
Trident missile destroyed after first submarine launch 4/16,p15
Navy funds Trident replacement study 4/30,p193
Trident tested to determine failure cause 5/28,p103

Wasp
Wasp antitank mini-missile evaluated 6/25,p93

MISSILES-INTERNATIONAL

China
Chinese missile, booster photographed 2/5,p19

France
Aerospatiale redirecting missile work 2/19,p71
French developing SA-10 for Saudis 4/16,p73

Great Britain
Swedes equip Viggen JA-37 with Sky Flash 1/8,p41

Norway
Penguin fired from Skudd 6/11,p77

Sweden
Swedes select Saab-Bofors RB.15 missile 5/7,p69

USSR
Soviet, Polish aircraft over Baltic Sea 2/5,p16
Congress unit warned of Soviet advances 2/12,p22
Warsaw's Pact's buildup includes nuclear missiles 5/21,p18
SALT may allow 3 new Soviet missiles 6/25,p21

MISSILES-INTERNATIONAL-CONSORTIUM

Roland
Funding approval for Roland may spur Senate, House clash 6/4,p21
Roland leaves launch tube to intercept aerial target 6/11,p86

MULTIPLEX SYSTEMS
Audio multiplex system passes test 5/7,p55

MUNITIONS DISPENSERS
Tactical munitions dispenser disperses bomblets 2/19,p69

NAVIGATION AND GUIDANCE
ARN-84 Tacan buy proves 'no win' situation 1/1,p49
Omega matures as long-range navaid 1/15,p58
Omega station at Liberia stresses timing, stability 1/22,p53
Protest filed in FAA Vortac program 2/5,p61
Hand-held navaid display developed 3/5,p59
Low-cost miniature Tacan scheduled for Paris display 4/30,p186
R-Nav system capabilities expand 6/18,p79
Data transfer unit automates F-4 nav inputs 6/25,p54

NOISE CONTROL
Noise funding shift to carriers urged 2/19,p35
Noise, safety bill offered in House similar to Senate's 3/5,p26
Delay of noise deadline studied 4/9,p34
Continental says it will meet noise deadline 4/23,p26
Senate approves aircraft noise bill 5/7,p27
Soviets voice noise complaints 6/18,p26

NORTH ATLANTIC TREATY ORGANIZATION
Currie analyzes economics of standardization 1/1,p56
U.S. budget growth allays NATO fears 2/5,p49
Perry calls NATO two-way street essential 2/12,p49
Haig hits U.S. on NATO leadership 3/5,p15
NATO leaders optimistic despite major problems 3/12,p55
Arms policy complicates NATO cooperation 3/26,p23
Weapons family concept backed 4/9,p14
NATO tactical airpower seen threatened 4/9,p54
NATO arms control group proposed 4/16,p18
U.S. tactical readiness hit 4/30,p29
Sen. Nunn discusses effects of SALT 5/14,p9
NATO members urge SALT 3 parleys 5/21,p17
British, German defense ministers to meet 5/21,p17
Skeptics question 'two-way street' 6/11,p77
NATO weighs U.S. actions on missiles 6/11,p86
Modernization to hike NATO budgets 6/11,p109

NUCLEAR PROJECTS
Atomic energy defense efforts fund bid raised $337 million 2/5,p51

OBITUARIES
Brig. Gen. Hollingsworth Franklin Gregory (USAF) 1/1,p22
Capt. Frank A. Erickson (U.S. Coast Guard) 1/1,p22
Walter J. Hodgson 1/1,p22
Robert B. Young 2/19,p23
Heinrich Focke 3/5,p23
Bain Ecarius Fulton 3/5,p23
Bruce F. Olson 3/26,p23
Stanley W. Burriss 4/2,p20
Max Conrad 4/9,p21
Whitney Willard Straight 4/16,p22
Capt. Philip Van Horn Weems (U.S. Navy) 6/11,p42

POWER AND CONTROL SYSTEMS
Wider power systems market sought 1/15,p54

POWERPLANTS

CFM International
CFM proposes engine for Fokker F-29 1/1,p25

Garrett
Garrett T76 completes test run 4/9,p53
Reliability key to engine power unit 5/14,p63
Hustler switches to Garrett engine 5/21,p79

Garrett/Flygmotor
TFE1042 turbofan displayed at Paris 6/25,p65

PROJECTS

General Electric
GE awarded contract for engine thrust management system 1/1,p26
F101 funded 3/12,p213
CF6-80 powerplant designed for growth 5/7,p43
F101 engine derivative work advances 5/14,p57
T700 to power WG.34 5/28,p23
Manufacturers developing fuel-efficient engines 5/28,p46

General Electric/Snecma
United CFM56 selection sparks DC-8 retrofit 4/9,p18
DC-8 reengining program underway 4/30,p42

Pratt & Whitney
Yugoslavs reqdest bid on TF30 engines 1/29,p26
Engine delays cause late delivery of 747 2/12,p12
Fan blade tears engine cowling 2/26,p27
Airbus orders boost Pratt & Whitney sales 3/12,p215
Navy TF30 problems continue despite fixes 4/2,p14
F100 engine problems studied 4/30,p32
Manufacturers developing fuel-efficient engines 5/28,p46
Europeans kept abreast of F100 fixes 6/11,p329

Rolls-Royce
Qantas buys RB.211 1/1,p25
Rolls wants bigger U.S. market share 1/8,p61
Rolls eyes greater GEM helicopter role 4/2,p51
First RB.211/535C nears test 4/16,p54

Snecma
W. Germany introduces tests for Larzac engine problems 2/12,p24

Snecma/Turbomeca
Alpha Jet engine fix cost estimated 4/30,p87

Turbo-Union
Turbo-Union RB.199 engine cost rises, program extended 2/12,p24
RB.199 engine for Tornado shown 6/11,p260

PROJECTS

ADAP
General aviation raps tax bid 1/29,p22

AWACS
French study AWACS buy 2/26,p20
NATO nations to buy 18 AWACS aircraft 6/11,p119

Forward Pass
Navy studies new surveillance capability 5/21,p59

Pave Paws
Pave Paws phased array radar nears acceptance 4/9,p60

Pave Penny
A-7D to use Pave Penny system 2/19,p20

Pioneer
Scientists begin processing, analyzing Venus data 1/1,p38
Venus yielding detailed information 1/1,p41
Venus radar mapper experiencing problems 1/15,p20
Scientists study Venusian data 2/19,p41
Pioneer finds hole in clouds around Venus 2/26,p49
Orbiter photographs Venus cloud cover 5/7,p21
Pioneer finds unique terrain on Venus 6/4,p23
Infrared radiometer experiment shows northern polar cap 6/11,p339

Place
Earth resources concepts proposed 3/26,p46

SEAIMP
Rockets aid eclipse assessment 3/5,p18

Skylab
NASA abandons Skylab control plans 1/1,p19
Contingency plans readied for Skylab 2/5,p15
Soviet space booster's return rehearses U.S. net for Skylab 5/7,p22
Skylab maneuver may hazard retention of vehicle control 5/28,p28
Increased solar activity perils control of Skylab on reentry 6/11,p41

Teal Ruby
Teal Ruby to be launched by shuttle 2/19,p47
Shuttle to launch Teal Ruby satellite sensor 6/4,p68

Viking
Viking Orbiter photographs Martian storm clouds 1/1,p39
Viking Mars data yield no sign of life 2/5,p57
Viking data collection to be changed 2/12,p25
Funding reallocation forces cutback in unmanned Mars program 3/19,p44

Voyager
Voyager 1 details Jupiter's moons 2/12,p20
Voyager 1 readied for Jupiter encounter 2/19,p50
Voyager 1 spacecraft on target 2/26,p18
Voyager images reveal Jovian details 3/5,p19
Scientists sift massive Jupiter data 3/12,p200
Jovian volcanoes detected 3/19,p14
Voyager mission called triumph and tragedy 4/9,p9
Voyager images active volcanoes on Io 4/16,p44
Voyager thruster shift studied 5/7,p23
Voyager images Ganymede, Amalthea 6/11,p338
Voyager discovers charged particles envelope 6/25,p77

PROPULSION

Wider power systems market sought 1/15,p54
Propulsion Lab shaping future designs 1/29,p235
USAF studies cause of fracture in new carbon/carbon nozzle 3/26,p61
Navy set to begin rocket/ramjet tests 4/2,p69
Advanced Navy ramjet tested 4/23,p24
Bolt extrusion thrust termination system tested 6/11,p349

RADAR

Pentagon confirms Soviet look-down tests 1/1,p17
Selenia three-dimensional radar being produced 1/1,p49
EMI Searchwater radar delivered for Nimrod 1/15,p62
Computer-aided radar displays 3-dimensional weather profile 2/19,p81
Shuttle radar, communications subsystem undergoes tests 3/5,p37
Aegis development site readied for May tests 3/5,p57
Earth resources concepts proposed 3/26,p46
Radar-coupled automatic landing tested 5/7,p57
Solid-state 3-D radar for NATO tested 5/21,p92
Commonality of aircraft radar pressed 5/28,p24

RAMJETS

Advanced Navy ramjet tested 4/23,p24

RECOVERY AND REENTRY

New recovery system eyed for missiles 3/5,p51
Recovery damage minimized by net, air bag 4/23,p59

RESCUE SYSTEMS

McDonnell Douglas suspended maneuvering system shown 6/11,p343

RESEARCH AND DEVELOPMENT

New technology thrust explored 1/29,p11
$5 billion proposed for USAF research funding 1/29,p18
Technology spurs weapon gains 1/29,p45
Soviets outspend U.S. by 25% 1/29,p56
Versatile fighter capabilities emerge 1/29,p59
Integration of robotics and computer technology begins 1/29,p61
Rockwell and McDonnell Douglas air-to-air missiles studied 1/29,p71
Synthetic fuels research emphasized 1/29,p71
Variety, cost key to munitions plans 1/29,p79
Two new ballistic missiles scrutinized 1/29,p101
Systems Command sets long-term priorities 1/29,p110
Advanced bomber, missile in definition 1/29,p113
Technology, threat shape new fighter 1/29,p123
Forward-swept wing potential studied 1/29,p126
Variety of configurations developed by Grumman 1/29,p130
Harassment drone plan stresses cost 1/29,p141
Tactical space communications pushed 1/29,p145
Cruise missile flight testing stressed 1/29,p147
Existing aircraft aided by flight tests 1/29,p163
Military satellite emphasis increases 1/29,p164
Space communications systems pushed 1/29,p168
Air Force technical plans aimed at the next 20 years 1/29,p174
New technology guides avionics work 1/29,p183

Weapon system capabilities explored 1/29,p186
Avionics simulator offers total environment test 1/29,p189
Computers analyze cost-effectiveness 1/29,p194
Forward-looking technology explored 1/29,p195
USAF Weapons Lab mission expanded 1/29,p212
Bolling AFB group guides basic science research 1/29,p215
Electronic technology aims changed 1/29,p221
Vandenberg key in space, missile tests 1/29,p225
Structural materials focus heightens 1/29,p227
Geophysics Laboratory stressing development 1/29,p231
Propulsion Laboratory shaping future designs 1/29,p235
USAF studies arming weapons vocally 1/29,p239
Clements discusses national security 2/5,p7
Bell pursues tests without NASA aid 2/26,p42
USAF sets new manned bomber studies 3/5,p14
Liquid-cooled missile nosetips tested 3/5,p53
Model of Mach 4.5 parasol-wing interceptor tested in wind tunnel 3/12,p21
New strategic weapons planned 3/12,p23
Existing airframe advances stressed 3/12,p28
Inventory shifts raise missile spending 3/12,p35
Circulation control wing demonstrates greater lift 3/19,p58
Research tax credit urged for industry 4/2,p55
Variable camber wing being developed 4/30,p163
Industry seeks lighter aircraft weight 5/21,p77
DARPA plans to build X-wing prototype 5/28,p25

ROCKET LAUNCHERS

Helicopter-mounted rocket launcher being developed by Hughes 6/11,p96

ROCKETS

Zaire terminates rocket launch site pact 5/7,p18
Japanese participating in sounding rocket program 6/11,p183
Super Arcas sounding rocket loaded into launcher 6/11,p189

RULES, REGULATIONS, POLICIES, STANDARDS

Part 24 review meeting delayed 4/9,p67
Part 125 proposal to hit bigger corporate aircraft 4/30,p43

SAFETY

Accident Liability
Review of helicopter liability case denied 1/1,p20
New York Airways amends Sikorsky lawsuit 5/14,p26

Accident Prevention
FAA broadens controls on air traffic 1/1,p27
Terminal control area airports named 1/8,p26
FAA issues Part 24 proposals 1/15,p32
NTSB chief seeks to spur FAA into action on air safety 2/5,p28
Cockpit field-of-view standards recommended 2/26,p28
Tire failure on DC-10 cause investigated 2/26,p31
Carbon fiber hazard concerns NASA 3/5,p47
Industry, government share graphite fiber risk analysis program role 3/5,p50
IFALPA to boycott two-man-cockpit aircraft 3/26,p32
General aviation urges VFR alternates 3/26,p59
FAA enforcement plan provokes anger 4/2,p18
FAA proposes stronger tire standards 4/2,p26
Lear crashes spur study of stall characteristics 4/2,p49
Better general aviation crashworthiness urged 4/2,p53
PATCO readies court test on immunity switch 4/9,p27
FAA hit on fire standards effort 4/9,p30
Safety disk demonstrated for flat tires 4/16,p56
Safety board says FAA delays setting cabin safety standards 4/30,p50
Approach altitude information urged 4/30,p55
Gulls imperil Michigan airport 5/7,p24
Cockpit display of aircraft tire pressure developed 5/7,p46
Report questions standards safety impact 5/7,p56
Flight safety symposium draws large crowd 5/14,p68
Medical certificates renewal proposed 6/4,p60

Accident Reports
NTSB analyzes National 727 Florida crash 1/1,p59
Approach, descent studied in National 727 accident 1/8,p63
NTSB cites lack of crew preparation in National 727 crash 1/22,p62
NTSB studies JAL DC-8 crash at Anchorage 4/30,p195
Control cited in PSA 727/Cessna 172 San Diego collision 6/4,p70
NTSB assigns Southwest 727/Cessna 172 San Diego collision fault 6/18,p81
Flightcrew faulted in Southwest 727/Cessna 172 San Diego midair 6/25,p95

Accidents
Memphis midair underscores training issue 1/1,p63
F-15 crashes in Europe spur modification for air starts 1/8,p16
Investigators seek cause of Alitalia DC-9 crash 1/8,p19
Board studies fuel state in United DC-8-61 crash 1/8,p23
PSA 727 San Diego crash raises questions 1/8,p26
Stall cited in Columbia Pacific Beech 99 crash 1/15,p29
Stall, alcohol cited in JAL DC-8 Anchorage crash 2/19,p29
Fan blade tears engine cowling on United 747 2/26,p27
Braniff 747 pilot dies in cockpit 3/19,p36
MAC equipment sent to Harrisburg following nuclear accident 4/9,p16
Focus narrowing on TWA 727 diving incident 4/16,p28
S-61 crash cause 4/23,p25
727 damage slight after dive incident 4/23,p29
Crew cited in San Diego midair collision 4/30,p34
FAA issues S-61 directive 4/30,p40
Philippine DC-10 tire failure investigated 5/7,p27
DC-10 Chicago crash to boost FAA scrutiny 6/4,p12
Cessna Conquest grounded 6/4,p23
Boeing, Lockheed prepare for pylon inspection 6/11,p47
DC-10 certification battle looming 6/18,p34
Augusta 109 destroyed in accident 6/18,p83
Jaguar strike fighter nose gear collapses at Paris 6/25,p19
Europe resumes DC-10 service 6/25,p31

SATELLITE STABILIZATION SYSTEM

Stabilization plan proposed by Aerospatiale 4/2,p65

SATELLITES-U.S.

AFSatCom
AfSatCom placed into operation 6/4,p20
Antisatellite
Vulnerability shifts space power focus 1/8,p58
Avco wins USAF award for antisatellite targets 6/25,p23
Applications Explorer
Satellite images trace U.S., Canadian snows 4/30,p136
Argus
U.S. monitoring capability impaired 5/14,p18
Block 5
Weather satellite production continues 6/4,p47
Block 5D DMSP launched 6/18,p56
Communications
Satcom competition raises questions 3/12,p81
Chinese tour U.S. telecommunications plants 3/26,p53
Defense Meteorological Satellite
Weather satellite production continues 6/4,p47
Defense Support Program Satellite
Satellite to collect infrared energy from Soviet ICBMs 1/29,p137
DSCS
DSCS 2 launched 1/1,p22
Earthwatch
Earth resources concepts proposed 3/26,p46
FleetSatCom
FleetSatCom contract awarded 1/15,p22
Second FleetSatCom scheduled for launch 4/30,p155
Second FleetSatCom firing successful 5/21,p61

SATELLITES—U.S.

Galileo
Sperry designs roll rings for Galileo 5/7,p58

GEOS
Earth resources concepts proposed 3/26,p46

HEAO
HEAO data support open universe 4/16,p38
HEAO 2 obtains X-ray burster images 5/28,p91

Heat Capacity Mapping Mission
Satellite images trace U.S., Canadian snows 4/30,p136

International Ultraviolet Explorer
Astronomy satellite teams forming 1/15,p43

KH-11
Film return satellite supplements KH-11 4/9,p18

Landsat
U.S., China agree on Satcom, Landsat 1/1,p14
Earth resources concepts proposed 3/26,p46
Comsat proposes stereoscopic satellite 4/16,p43
Operational Landsat wins backing of White House 4/30,p138
State Landsat utilization extensive 4/30,p143
Landsat experiences scanner problems 5/28,p79

Magsat
Magsat star trackers installed 2/5,p59

Military
Military satellite emphasis increases 1/29,p164

Navstar
Fourth Navstar launched 1/1,p22
Space communications systems pushed 1/29,p168
Navstar receivers tested on landing craft 2/12,p51
More detail urged on Navstar project 3/19,p55
Four orbiters to get Navstar capability 4/30,p187

NOAA
NOAA spacecraft could save at least $172 million 2/12,p45
NOAA launch postponed 5/28,p71
NOAA launch date rescheduled 6/25,p90

Rhyolite
U.S. monitoring capability impaired 5/14,p18

SAGE
SAGE spacecraft launched 3/5,p23

Satellite Business Systems
Hughes developing Satellite Business Systems 5/14,p43
SBS rehearing set 5/28,p80

Scatha
Scatha launched Jan. 30 2/5,p21
Scatha experiments experience problems 4/16,p22

Seasat
Communications problem cited in failure of Seasat 2/5,p14

SIRE
Air Force cancels infrared spacecraft 6/4,p22

Solar-Cell Powered Spacecraft
Vulnerability shifts space power focus 1/8,p58

Solar Power Satellite
Solar power satellite studied 1/22,p14
Energy Dept. seeks solar satellite funds 2/5,p15

Space Test Program
Space tests scheduled 1/29,p208

Stereoscopic Satellite
Comsat proposes stereoscopic satellite 4/16,p43

Strategic Satellite System
Strategic Satellite System planned for AFSatCom 4/9,p20

TDRSS
Changes boost tracking satellite cost 2/26,p20
Shuttle radar, communications subsystem undergoes tests 3/5,p37

Television
GE, Red Chinese air TV satellite plans 1/22,p17

Tiros
Tiros-N Mediterranean imagery shows advances 1/8,p54

SATELLITES-INTERNATIONAL

Canada
Anik-B launched 1/1,p15
SBS, Anik C spacecraft models compared 6/25,p82

China
U.S., China agree on Satcom, Landsat 1/1,p14

Czechoslavakia
Russian, Czech space vehicles in earth orbit 3/5,p43

Great Britain
UK-6 astrophysics satellite readied for launch 5/14,p47
Ariel 6 launched from Wallops 6/18,p55

Japan
MBB, Mitsubishi to develop Japanese satellite 1/15,p43
GE, Red Chinese air TV satellite plans 1/22,p17
Experimental Communications Satellite launched 2/12,p25
Experimental Communications Satellite shown during launch 2/19,p50
Corsa-B satellite launched 2/26,p24
Japan boosts space spending 3/12,p80
Japan revises launch schedule 4/9,p20
Japan to launch 11 satellites by 1984 6/11,p303

USSR
Soviets confirm Venus argon 36 data 1/1,p21
Cosmos 1,069 launched Dec. 28 1/8,p19
Soviet Venus data raise questions 1/15,p19
Basic configuration of Venera retained 1/15,p50
Soviets maintain high recon launch rate 2/5,p18
Soviets launch ocean research satellite 2/26,p14
Cosmos 1,079 launched 3/5,p23
Russia, Czech space vehicles in earth orbit 3/5,p43
Soviets ready new spacecraft series 3/12,p75
Soviets launch Cosmos 1,080 and 1,081-1,088 3/19,p33
Progress 5 tanker/transport launched 4/9,p21
Soviets encrypting space links 4/30,p26
Soviets change ocean missions 4/30,p33
Soviet Intercosmos preparations shown 4/30,p145
Soviets launch Cosmos 1,098 and 1,099 5/21,p23
Cosmos 1,100 and 1,101 launched 5/28,p28
Soviets photograph Progress 6 tanker/transport 5/28,p72
Soviets exhibit Statsionar satellite 6/11,p40
Soyuz 34 launched unmanned toward Salyut 6 6/11,p41
New Soviet Horizon satellite exhibited 6/25,p21

SATELLITE-INTERNATIONAL-CONSORTIUM

European Communication Satellite
Europeans plan regional communications satellite 5/28,p80

Global Maritime Communications Satellite
Prospects for global maritime communications improving 4/30,p90

Inmarsat
Inmarsat satellite choice splits U.S., other parties 1/8,p17
U.S., Soviets subscribe to 51% of maritime satellite network 5/21,p63

Intelsat
New Intelsat system approved 4/23,p52

LASSO
ESA satellite to synchronize atomic clocks 3/26,p21

Nordsat
Nordic TV satellite system expected 6/11,p195

Remote Sensing Satellite
ESA funds remote sensing satellite studies 4/2,p61

Sirio
ESA satellite to synchronize atomic clocks 3/26,p21

TV-Sat
Television satellite plan submitted 2/5,p14

SEATS

Pilot seat studied 1/29,p69
Inclined seat for pilots tested 5/28,p105

SENSORS

Airborne sensor detects fish at night 2/26,p60
Mosaic sensor testing scheduled 6/25,p53

SIMULATORS

Avionics simulator offers total environment tests 1/29,p189
Soviet controllers train with simulators 3/5,p25
Image systems developed for new flight simulators 3/12,p181
Helicopter simulator flies in Scotland 4/30,p175
Simulator generates surface scene 4/30,p181

SOLAR ECLIPSE

Airspace jammed for eclipse viewing 3/5,p18

SOLAR PROJECTS

Solar wing deployment demonstrated 1/15,p47

Germany, Mexico sign solar energy pact 2/5,p14
Greater effort on solar power urged 2/26,p51

SOLID ROCKET MOTOR

Solid rocket motor fired 4/9,p19

SOVIET UNION

Jones gives Soviet defense view 1/9,p28
Congress unit warned of Soviet advances 2/12,p22
Gen. Haig discusses global Soviet threat 4/16,p9
Soviets arms control ruled by military 4/30,p30
Writer critical of Russian air service 5/21,p49
Official urges action to improve Aeroflot 5/21,p52

SPACE COMMUNICATIONS

Tactical space communications pushed 1/29,p145
Space communications system pushed 1/29,p168

SPACE POWER SYSTEMS

Vulnerability shifts space power focus 1/8,p58

SPACE SHUTTLE

Engine failure threatens shuttle's schedule 1/8,p12
Shuttle exhaust, airflow interaction shown 1/29,p196
Larger shuttle orbiter fleet urged 2/5,p12
Orbiter ferry to space center delayed 2/5,p13
Shuttle main engine tests accelerated 2/12,p44
Teal Ruby to be launched by shuttle 2/19,p47
NASA splits shuttle power augmentation 2/19,p54
Reusable upper stage believed pivotal to shuttle exploitation 2/19,p56
Further shuttle launch slip forecast 2/26,p17
Space shuttle motors have last test 2/26,p17
Companies study shuttle missile tracking 2/26,p18
Shuttle supplemental called 'problem' 2/26,p21
Shuttle test payload revisions studied 3/5,p17
First orbiter ready for Florida transfer 3/5,p22
Shuttle radar, communications subsystem undergoes tests 3/5,p37
Western shuttle facility plan changed 3/5,p40
Loss of tiles delays orbiter ferry flight 3/19,p21
Kennedy compresses schedules to hold shuttle launch option 3/26,p20
Shuttle power package being developed 3/26,p43
NASA seeks to define manned space stations 3/26,p49
Orbiter Columbia delivered to Kennedy Space Center 4/2,p19
Problems delay shuttle crew training 4/2,p58
NASA shifts large structures planning 4/9,p43
Space shuttle engine problems believed solved 4/16,p19
Industry shuttle purchase, operations being studied 4/16,p42
Shuttle hardware progress confirmed 4/23,p21
NASA seeks shuttle capability growth 4/23,p42
Shuttle orbiter, tank mated 4/30,p27
Shuttle mockup to be at Paris show 4/30,p63
Shuttle mission control training starts 4/30,p125
Shuttle expected to increase insurance 4/30,p147
Program supporters point to popular display 4/30,p147
Four orbiters to get Navstar capability 4/30,p187
Mated shuttle reaches pad 39A 5/7,p12
$600 million shuttle cost overrun startles Congress 5/7,p18
First shuttle reentry poses challenges 5/14,p38
Thermal tile application accelerated 5/21,p59
Shuttle orbiter elevon seals tested 5/21,p64
Launch pad 39A interfaces verified with Enterprise 5/21,p70
Shuttle three-engine test article firing postponed 5/28,p23
Shuttle motor thrust studied 5/28,p23
Space center stresses in-house designs 5/28,p61
NASA to reduce role in civil shuttle missions 5/28,p67
NASA forms study team 5/28,p67
Main engine incident laid to nozzle flex 5/28,p77
Sperry developing flight design of gimbal platform for shuttle 5/28,p89
Further shuttle launch delay feared 6/4,p20
NASA to train USAF officers as controllers 6/4,p21
New thermal system for shuttle urged 6/4,p45
Shuttle to launch Teal Ruby satellite sensor 6/4,p67
Space shuttle model shown at Paris 6/11,p28
Space market undergoing changes 6/11,p181
NASA accelerates checkout of shuttle 6/18,p54
Strap-on shuttle motor contract awarded 6/18,p54
Suborbital shuttle mission reexamined 6/25,p26

SPACE SLED

ESA votes on space sled funds 4/16,p42

SPACE SUITS

British microprocessor to eliminate space suit umbilicals 5/14,p46

SPACE TECHNOLOGY-U.S.

U.S./Soviet Venus, moon flights urged 1/15,p17
Another sparse space budget for 1980 1/22,p9
Stevenson urges Congress act on space policy 1/22,p23
Debate on space policy heats 2/5,p12
Michener discusses importance of space exploration 2/12,p7
Cousins discusses importance of space exploration 2/19,p9
Space policy discussion stresses solid goal need 2/19,p52
Public supports space 3/5,p7
Commercial space emphasized 3/12,p68
NASA seeks to define manned space stations 3/26,p49
Space policy poses scientific challenges 4/2,p63
U.S., USSR join in weightlessness studies 4/23,p21
Italy proposes military space ban 4/23,p52

SPACE TECHNOLOGY-INTERNATIONAL

Canada

Canada being selective with space funds 6/11,p202

China

China beginning manned space effort 5/28,p26
U.S. team tours China space facilities 6/25,p77

Europe

ESA details economic benefits to industry 1/15,p44
Europe faces space funds competition 3/12,p79
Europeans assess new lunar programs 4/2,p62

Italy

Industry funds initial studies for Italian space programs 3/19,p48

Japan

Japan boosts space spending 3/12,p80

USSR

Soviet space puzzle 1/15,p7
Cosmonauts readapt after long flight 1/22,p17
Soviets to check Salyut 6 3/5,p23
Soviets ready new spacecraft series 3/12,p75
Crew checks Salyut 6, raises orbit 3/12,p211
Cosmonauts use tanker supply in refurbishing Salyut vehicle 3/19,p33
Soviets fix Salyut fuel tank problem 3/26,p20
Cosmonauts increase exercise regime in new Salyut 6 mission 4/2,p19
Soviets reveal orbital lab space plans 4/9,p21
Propulsion problem stops rendezvous, Soyuz lands 4/16,p20
U.S., USSR join in weightlessness studies 4/23,p21
Highly stressed reentry performed by Soyuz 33 4/23,p22
Soviets encrypting space links 4/30,p26
Russians begin resupplying Salyut 6 5/21,p22
Soviets photograph Progress 6 tanker/transport 5/28,p72
Salyut refueling by Progress 6 completed 6/4,p22
Soyuz launched toward Salyut 6 6/11,p41
Soyuz photographs Salyut 6 in space 6/25,p76

SPACELAB

SPACELAB

First Spacelab pallet completed 1/22,p63
Cost perils Spacelab sled experiments 2/12,p44
ESA's Spacelab projected cost rise foreseen 3/19,p22
ESA votes on space sled funds 4/16,p42
Lockheed developing Spacelab workbench 5/14,p51
European Spacelab hardware processed 6/25,p87

STOL, V/STOL, VTOL, Q/STOL

Navy V/STOL concept to be studied 1/8,p40
Light STOL fighter concept depicted 1/29,p49

STORMS AND FLOODS

Storm again closes O'Hare 1/22,p24
European air traffic tangled, thousands stranded by storm 1/29,p31
Storm snarls East Coast traffic 2/12,p27
Drifting snow closes airports; impact extends south to Atlanta 2/26,p27
ATS used as tornado aid 4/16,p20

STRATEGIC ARMS LIMITATION TALKS

House panel urges rejection of SALT 1/1,p16
Basing concepts could violate SALT 2/12,p22
Gen. Lew Allen discusses SALT 2/26,p9
Carter praises emerging SALT terms 2/26,p22
Soviets push telemetry bypass 4/16,p14
U.S. entering defense crisis 4/23,p11
Soviets encrypting space links 4/30,p26
Carter avers arms treaty can be verified 5/7,p20
Sen. Nunn discusses effects of SALT on NATO 5/14,p9
SALT 2 approval hinges on MX 5/14,p14
Acceptable basing mode for MX sought 5/21,p14
British concerned about SALT enforcement 6/11,p121
SALT may allow 3 new Soviet missiles 6/25,p21

STRIKES, BOYCOTTS, JOB ACTIONS

SABCA employes strike 1/15,p23
SABCA workers strike 1/22,p16
Wien, pilots taking steps to end 21-month strike 3/5,p30
Strike of Alitalia flight attendants causes flight cancellations 3/19,p33
Pan Am, flight attendants parley on strike threat 3/26,p32
Strike by machinists stalls United advances 4/9,p22
Airlines face 46 contract expirations 4/9,p23
United and Teamsters strikes cripple air cargo system 4/9,p24
French controllers threaten slowdown 4/9,p25
Machinists' strike costing United $1.5 million a day 4/23,p32
United plans discount blitz after strike 5/14,p32
United machinists approve agreement 5/28,p37
Hughes, Ozark mechanics seek greater gains than United 6/4,p25

TARGETS

USAF studies arming weapons vocally 1/29,p239
Avco wins USAF award for antisatellite targets 6/25,p23

TRACKING AND SCANNING

Industry eyes maritime patrol market 2/26,p53
Target recognition, attack multisensor delivered 3/19,p60
Navy studies new surveillance capability 5/21,p59
Four aircraft pace sea patrol service 6/18,p63

TRAJECTORY CONTROL SYSTEMS

Trajectory control system advances 5/28,p93

TRAVEL AGENTS

Scrutiny of agent fees looms 3/19,p34
CAB rejects agent guarantee proposal 4/16,p25
CAB proposals would relax carrier, travel agent dealings 6/11,p62

TREATIES, PACTS, AGREEMENTS, BILATERALS

Difficult aircraft issues still open in trade pact 1/15,p22
Treaty sets strengths, withdrawals 4/2,p15
GATT agreement eases aviation tariffs 4/16,p20
Aircraft trade pact raises questions 4/23,p25
Industry sees benefits in tariff pact 4/30,p171

UNITED STATES AIR FORCE

Systems Command sets long-term priorities 1/29,p110
Air Force technical plans aimed at the next 20 years 1/29,p174
Test facility to boost Arnold capability 1/29,p203
Unit manages operational test and evaluation 1/29,p214
Vandenberg key in space, missile tests 1/29,p225
USAF procurement policies revised 2/5,p50
U.S. tactical readiness hit 4/30,p29
Air Force tightens management studies 4/30,p87
Tighter procurement policy stressed 5/14,p19

UNITED STATES AIR FORCES IN EUROPE (USAFE)

Combat capability of USAFE growing 4/2,p34

UNITED STATES GOVERNMENT

Defense Department

Funding, taxes cloud outlook 1/29,p16
Defense supplemental, carrier cuts asked 4/9,p17
Agencies split on excess profit basis 4/16,p21
Need statements procedure shows progress 4/16,p53
Committee clears defense bill 5/21,p21
Pentagon seeks to curtail development times, costs 3/12,p213
DOD civil export control role urged 3/19,p27

Trade Dept.

Trade Dept. urged in Senate report 3/19,p28

UNITED STATES GOVERNMENT AGENCIES

Civil Aeronautics Board

Some CAB functions expected to grow 3/12,p154
CAB member, Eastern clash on seat 4/23,p28
Levine to steer international aviation policy 5/21,p29

Customs Service

Customs seeks more, larger aircraft 3/5,p54

Federal Aviation Administration

General aviation raps tax bid 1/29,p22
Wider traffic control budgeted 1/29,p29
FAA speeds alphanumeric readout installation 3/19,p34
FAA plans new ATC computer 3/26,p24
FAA enforcement plan provokes anger 4/2,p18

General Accounting Office

U.S. tactical readiness hit 4/30,p29
Direct approach to coproduction urged 4/30,p85
GAO hits management of arms sales 6/11,p115

NASA

Austere NASA budget excludes new program starts 1/1,p14
NASA sets 16 flights in 1979 1/8,p18
NASA budget provides no real growth 1/22,p16
NASA budget future becoming bleak 1/29,p24
NASA will resubmit programs rejected in fiscal 1980 budget 2/12,p48
NASA budget reallocated 3/5,p23
House units boost NASA programs 3/19,p24
Annual astronaut selection planned 5/7,p23
Space center stressed in-house designs 5/28,p61

Renegotiation Board

Carter seeking funds to extend Renegotiation Board 2/12,p23

UNITED STATES NAVY

Navy funding bid geared to readiness 1/29,p27
Naval air trends termed 'evolutionary' 2/19,p19

WEAPON SYSTEM

Hughes offers bomb system proposal 1/8,p51
Variety, cost, key to munitions plans 1/29,p79
Hughes prime contractor for GBU-15 2/5,p21
Congress unit warned of Soviet advances 2/12,p22
Tactical munitions dispenser disperses bomblets 2/19,p69
New strategic weapons planned 3/12,p23
Navy to adapt projectile for use against surface targets 4/16,p73

Aviation Week & Space Technology July–December 1979 Editorial Index

AEROSPACE INDUSTRY

U.S.
Metals shortage disrupts components fabrication 7/2,p28
Lockheed makes new credit arrangements 7/30,p21
Boeing sales, earnings rise 8/13,p29
Fiscal gains expand Lockheed's vista 8/27,p95
Strikes jeopardize deliveries 9/24,p19
Beech explores nonaerospace products 10/29,p52
Aerospace manufacturers' sales climb 11/12,p27
Boeing eyeing derivative aircraft 11/12,p96

Europe
United European arms industry urged 10/29,p65

Germany
Germany modernizing defense forces 10/22,p50

Great Britain
Britain planning to return BAC, British Airways to private status 7/30,p19
U.K. prepares for denationalization 11/12,p22
British act to reshape Rolls 11/19,p18
British plan rise in defense 11/19,p45

Greece
Greece seeking aerospace role 7/2,p63

Italy
Italy facing pilot shortage 8/27,p70

Japan
Japan plans modernization 8/6,p48
Japan earmarks funds for airports 9/3,p27

Korea
South Koreans seek new military air capacity 10/22,p62
Airline traffic spurs Korean expansion 11/5,p33

Netherlands
Dutch budget meets NATO guidelines 11/19,p54

Yugoslavia
Yugoslavian firm raises military technology sales 10/15,p18

AIR CARGO AND AIR MAIL

Carrier gears for service 8/13,p37
Air freight decreased 10/15,p27
Flying Tiger reduces staff 11/19,p26
Revenue up, volume flat 12/3,p36

AIR MIX SYSTEM

Engineers studying air mix system 11/12,p150

AIR SHOWS

Hanover
400 companies to take part in 1980 Hanover show 11/5,p17

Japanese International Aerospace Show
Japanese aim for broader-based show 12/3,p20
Varied aircraft types on view at Iruma show 12/17,p82

NBAA
Demand for aircraft unabated 10/1,p14
OMAC develops new turboprop 10/1,p16
Avionics makers focus on monitor alert units 10/1,p17
Engine, subsystem makers strive to meet new demand 10/1,p18

Paris
Fighters displayed at Paris 7/2,p19
New light transport market emerging 7/2,p55
Paris show generated record sales 7/2,p58
Trainers vie for international market 7/9,p42
West Europe seeks greater share of helicopter market 7/16,p42
Soviet transports displayed at Paris 7/23,p28
Global business aircraft sales soar 7/23,p46
Transports exhibited at Paris 7/30,p26

AIR TRAFFIC CONTROL

FAA readying schedule 7/9,p61
Swedes press Soviet ATC completion 7/23,p30
FAA to alter proposed ATC rules 9/3,p31
FAA eases proposals 9/17,p27
Bilingual plan facing opposition in Canada 9/17,p28
Computer problem slows route control at New York center 11/19,p30
Decision computers studied for ATC 11/19,p37
ATC computer failure rise charged 11/26,p28
New control system readied for New York 11/26,p59

AIR TRAFFIC CONTROL

Control problems foreseen 12/3,p21
San Diego TCA proposed 12/3,p29
Critic cites fund surplus 12/3,p30
Ft. Worth ATC probed 12/3,p31
ATC poses question of Agean control 12/17,p36
ATC computer fixes in works for two years 12/17,p65

AIRCRAFT CARRIERS, SHIPS, SUBMARINES

Carrier Minsk joins fleet at Vladivostok 7/23,p17
Future Far East balance called clouded 8/6,p45
Soviet carrier policies shifting 8/20,p14
Soviet ships operate in Caribbean 8/20,p14
Laser communications plan studied 9/3,p73
Soviets aid Cuban naval buildup 9/10,p17
Soviets push advanced naval weapons 9/24,p139
House slates fleet probe 9/24,p146
Chances improve for nuclear carrier 10/8,p19
Royal Australian Navy requires 10 helicopters 11/5,p22
F-18 launched, recovered on board USS America 11/19,p64

AIRCRAFT INTERIORS

Completion centers' business booming 9/24,p63
Industry seeks galley standardization 11/12,p137
757 interior arrangement detailed 12/17,p47

AIRCRAFT-SUPERSONIC AND HYPERSONIC

Supersonic V/STOL need envisioned 8/20,p50
Congress forecasts feasibility by year 2000 11/12,p14

AIRCRAFT-U.S.

Active Control Transport
Boeing stressing active controls 11/12,p73

Ahrens AR-404
Ahrens AR-404 gets airworthiness certificate 11/19,p40

ATCA
KC-10 contract awarded to Douglas 11/12,p21

ATMR
McDonnell Douglas revives ATMR project 10/15,p25
Advanced technology design studied 11/12,p115
Current aircraft advances expected 11/12,p123
ATMR deck reconfiguration studied 11/26,p33

Beech 60
Airworthiness directive issued 12/10,p86

Beech King Air
Jetcrafters modified Beech 90 King Air 9/24,p57
King Air F90 stresses performance 9/24,p129

Beech Skipper
Bolt inspection ordered on Skipper 10/22,p59

Bell XV-15
XV-15 converts in flight from helicopter mode 7/30,p13

Boeing 707
Design failure, metal fatigue cited in Dan-Air 707-321 Zambia crash 8/13,p26
British investigate Zambian 707 crash 9/10,p79
Lusaka 707 probe procedures detailed 9/17,p75
British cite causes for Dan Air 707 Zambia accident 9/24,p189
Boeing 707 reengining test scheduled 10/22,p36
Boeing eyeing new derivative aircraft 11/12,p96

AIRCRAFT—U.S.

Boeing 727
Air Canada orders 727-200s 8/27,p25
Federal Express buying used 727s 10/1,p24
Investigators seek cause of 727 diving incident 10/1,p26
Aircraft configuration assures Papal privacy 10/8,p25
Boeing eyeing new, derivative aircraft 11/12,p96
ATMR, 727-200, 757 characteristics compared 11/26,p33

Boeing 737
Advanced systems aid profile descents 8/20,p57
Southwest Airlines of Okinawa ordered 737 8/27,p25
Southwest considers aircraft replacement 9/10,p38
FAA studies 737/L-1011 near miss 11/12,p24
Boeing eyeing new, derivative aircraft 11/12,p96

Boeing 747
Boeing looks to stretching 747 7/9,p27
Pan Am plans 747 life extension 7/9,p29
747 pylon cracks found 7/16,p30
Dutch official faults Spanish Tenerife report 7/16,p36
Cameroon, Lufthansa and Braniff order 747s 7/30,p40
Pilot error cited in Air India 747 crash 8/20,p27
Boeing details 747 pylon/wing design points 8/27,p34
747 inspection ordered 9/3,p26
Alitalia orders 747 9/3,p29
Alitalia orders nine 747s 9/17,p43
Dutch dispute report by Spanish on Tenerife 10/8,p91
Dutch differ with Spanish on Tenerife 10/15,p83
Flameout spurs alternate fuel study 11/5,p25
Thai Airways orders 747s 11/12,p15
Boeing eyeing new, derivative aircraft 11/12,p96
Boeing studies digital 747 avionics 11/12,p189

Boeing 757
Boeing awards 757, 767 contracts 7/9,p27
757's blunted nose shortens fuselage 7/23,p38
Boeing 757 program entering new phase 8/6,p22
Boeing wing-pylon design unchanged 8/13,p28
Cockpit of 757 features new instrumentation 8/13,p42
Boeing award gives Bendix digital edge 8/27,p113
Short Bros. to develop inboard training edge flaps for 757 9/10,p30
757 subcontract awards exceed $1 billion 10/15,p24
757 cabin layout shown 11/12,p37
Boeing facing new set of challenges 11/12,p43
757/767 major subcontractors listed 11/12,p44
Boeing new aircraft schedule manageable 11/12,p55
Commonality stressed in new aircraft 11/12,p67
Boeing eyeing new, derivative aircraft 11/12,p96
Computer design seen cutting costs 11/12,p103
Advanced technology design studied 11/12,p115
Avionics test procedures bolstered 11/12,p186
Commercial market drives laser gyros 11/26,p42
Fairchild and Rohr awarded subcontracts 12/3,p27
Boeing begins cutting metal for 757 12/17,p28
757 interior arrangement detailed 12/17,p47

Boeing 767
Boeing assembling 767 metal mockup 7/2,p29
Boeing looks to stretching 767 7/9,p27
Boeing awards 757, 767 contracts 7/9,p27
Specific needs spurred Air Canada choice of 767 7/16,p33
Boeing nears completion of full-scale 767 mockup 8/13,p27
Boeing wing-pylon design unchanged 8/13,p28
Boeing award gives Bendix digital edge 8/27,p113
PICO Div. of Sargent awarded contract for evacuation system for 767 10/1,p28
All Nippon selects 767 10/8,p28
CP Air selects 767 10/22,p30
Boeing facing new set of challenges 11/12,p43
757/767 major subcontractors listed 11/12,p44
Boeing new aircraft schedule manageable 11/12,p55
Wing aerodynamics on 767 to yield efficiency 11/12,p81
Airlines foresee multiplex benefits in new aircraft lines 11/12,p82
Boeing eyeing new derivative aircraft 11/12,p96
Computer design seen cutting costs 11/12,p103
Avionics test procedures bolstered 11/12,p186
Seating detailed for United 767s 11/19,p29
Speedy decision expected by TWA on 767, A310 pick 11/19,p30
Commercial market drives laser gyros 11/26,p42
TWA board delays transport choice 12/3,p27
TWA picks 767 over A310 12/10,p26
Engine selection for 767 yet to be decided 12/17,p26

Boeing 777
Boeing looks to stretching 747 and 767 7/9,p27

Boeing B-52
B-52Ds designated for support of NATO 10/15,p14
Cruise missiles in flight tests 10/15,p74

Boeing C-97
Wind tunnel section moved in Super Guppy 12/17,p74

Boeing E-3
Rockwell awarded E-3A avionics contract 8/27,p17
E-Systems receives AWACS contract 8/27,p107
Offset delay hampers E-3A buy 9/24,p24

Boeing KC-135
KC-135 winglets test scheduled 7/23,p23
KC-135 tested with winglets 8/6,p14
KC-135 winglets buckling 8/20,p21

Cessna 150
NTSB scrutinizes midair collision 8/13,p64
Coordination lack cited in Cessna 150, Falcon crash 8/20,p67

Cessna 210
Weather radar developed for Cessna 8/6,p53

Cessna T-37
USAF, Navy set trainer needs 7/9,p14

Cessna Conquest
Cessna plans Conquest tail modification 8/20,p19
Cessna to replace all Conquest tail assemblies 8/27,p18
FAA to monitor Conquest fixes 10/1,p85
Cessna Conquest tail reconfigured 10/15,p63

Commuter Aircraft CAC-100
Commuter deliveries set within 4 years 7/30,p28

Energy Efficient Transport
Boeing stressing active controls 11/12,p73
Energy efficiency research growing 11/12,p119
Energy efficiency funding detailed 11/12,p122

Fairchild A-10
Bistatic airborne radar use studied 8/13,p57
Aircraft survivability being evaluated 8/27,p60
Night/adverse weather A-10 provides low-level operations 9/17,p46
Korea eyeing A-10 9/17,p48
Air Force evaluating night-bad weather A-10 11/26,p37

Forward Swept Wing
Forward swept wing contracts readied 9/24,p17
Forward swept wing technology advances 12/17,p73

Fuel-Efficient Aircraft
NASA defining fuel-efficient program 10/8,p74

Gates Learjet
Winglets boost performance of Learjet 8/20,p39
FAA may reexamine icing certification 11/19,p66

General
Three named for short haul studies 8/6,p30
Bomber/cruise missile carrier studied 8/27,p15
Aerospace manufacturers' sales climb 11/12,p27
Boeing facing new set of challenges 11/12,p43
Ground problems continue to mount 11/12,p143

General Dynamics F-16
F-16 flies at Paris 7/2,p20
F-16s for South Korea opposed 7/9,p14
Fixes for F-16 radar problems claimed 7/16,p23
F-16s arrive in Utah 7/30,p18

Belgium selects F-16 ECM system 8/6,p16
Canadians eye possible F-16 reengining 8/20,p18
F-16s restored to flight status 8/20,p22
F-16 bolt inspections ordered 8/27,p14
F-16 cannon firing problems under study 9/24,p22
F-16 crash linked to refueling relay 10/15,p17
F-16 radar improvements funded 10/22,p24
CF-16 program to provide $2.4 billion in offset contracts 10/22,p25
Air force identifies F-16 fixes 10/29,p23
General Dynamics offers CF-16 offset 11/5,p48
Canadian fighter spurs offset battle 11/26,p34
F-16A export version planned with J79 11/26,p55

General Dynamics F-111
F-111s help depress readiness 8/13,p16
USAF commands push stretching of 155 F-111s 9/24,p16
Data mounted on F-111 mock-up measures antenna pattern 10/8,p84
EF-111 exceeds goals 10/29,p68

Gossamer Albatross
NASA to study Gossamer Albatross 11/12,p22

Grumman F-14
Target identification upgrade sought 8/6,p59

Grumman G2 Goose
Cause of Grumman Goose crash determined 7/30,p40

Grumman Albatross
Albatross to be shown at NBAA meeting 9/24,p45

Gulfstream American Gulfstream
Gulfstream 3 wing, fuselage mated 8/13,p17
Gulfstream G-1 stretched 9/17,p27
Gulfstream 2 scheduled for roll out 9/24,p55
Gulfstream 3 rolled out Sept. 21 10/1,p14
Gulfstream 3s to patrol Danish waters 11/5,p60
Gulfstream commuter makes first flight 11/12,p25
Gulfstream 3 makes first flight 12/10,p17

Gulfstream American Hustler
Hustler trainer planned 8/6,p19

HH-1 Zipper
Recon aircraft developed 7/23,p21
HH-1 Zipper crashed 8/27,p22

LearAvia Learfan
Learfan 2100 tour nets 11 orders 7/23,p23
LearAvia, British parley on production 10/22,p57

Lockheed C-130
Lockheed designs new Hercules 7/2,p17
C-130 modified for surveillance 8/13,p19
C-130 stretched in Georgia 11/26,p19

Lockheed C-130/L-100
Lockheed mulls two-engine C-130/L-100 10/22,p62

Lockheed C-141
C-141 stretch program accelerating 8/27,p16
Stretched C-141B completes flight tests 11/19,p21
Streched C-141 to be received 12/3,p16
Composite C-141 wing to be evaluated 12/10,p46

Lockheed L-100
Lockheed designs new Hercules 7/2,p17
Lockheed developing stretched L-100 8/27,p95

Lockheed L-100/C-130
Lockheed studies L-100/C-130 derivatives 11/12,p199

Lockheed L-400
Lockheed mulls two-engine C-130/L-100 plan 10/22,p62
Lockheed Georgia studies L-100/C-130 derivatives 11/12,p199

Lockheed L-1011
Lockheed issues report on L-1011 engine installations 7/2,p40
Short-field L-1011 version studied 8/13,p25
TAP orders L-1011-500 9/10,p29
TriStar costs offset profits 10/15,p32
FAA studies 737/L-1011 near miss 11/12,p24
Pan Am L-1011-500 nears completion 11/12,p36
Aircraft advances expected 11/12,p123
Production facilities considered adequate 11/12,p131
L-1011 performance capability being sought 11/12,p179
Test flights begin 12/3,p32

Lockheed P-3
Harpoon mounted on P-3 9/10,p72

Lockheed U-2
U-2 collection believed to be dust of comet 10/29,p49

LX/MRSA
Multirole strategic aircraft proposed 9/17,p18

McDonnell Douglas AV-8
AV-8B passes flight test milestone 8/20,p49
Pilot used normal procedures in AV-8B engine loss, crash 11/26,p19
Advanced Harriers tested on carrier 12/10,p63

McDonnell Douglas DC-4
Falcon Airways doubling its DC-4 fleet 7/9,p33

McDonnell Douglas DC-8
Investigation of United DC-8 crash spurs NTSB recommendations 10/8,p93
Swissair DC-8-62 crashes at Athens Airport 10/15,p29
Fuel situation cited in Portland DC-8 crash 11/5,p71
Crew performance in Portland crash disorganized 11/26,p64

McDonnell Douglas DC-9
DC-9 completes China tour 7/30,p28
Super 80 getting final checks 8/6,p28
Midway plans service 8/6,p32
Super 80 HUD development completed 8/6,p54
Delays plague Super 80 8/13,p23
Aeromexico orders new transports 9/24,p31
DC-9 tailcone loss spurs aft bulkhead inspections 9/24,p32
Republic to consolidate routes 10/1,p24
Super 80 delays expected 10/1,p34
Bulkhead inspections could be expanded 10/1,p35
China to purchase DC-9 10/15,p27
DC-9 inspections broadened 10/15,p28
DC-9 modifications developed 10/29,p24
Super 80 tests begin 10/29,p29
Super 80 undergoing test series 11/12,p135
Crew size triggers debate 11/19,p27
Midway Airlines gains acceptance 11/26,p21

McDonnell Douglas DC-10
Design review completion pushed 7/2,p32
Western DC-10 pilots returned to pay status 7/9,p28
JAL resumes service 7/16,p29
New findings prolong grounding 7/16,p29
Future grounding impact seen 7/23,p24
CF6 shutdowns investigated 7/30,p23
DC-10 cracks discounted 8/6,p26
NTSB to tighten quality control 8/13,p25
Memo cited in American DC-10 Chicago crash 8/13,p27
Decision due soon on fines 8/20,p27
CF6 shutdowns termed average 9/3,p25
FAA sets goal for DC-10 action 9/10,p29
Aeromexico orders new transports 9/24,p31
Inspections increasing costs of maintenance 10/1,p34
Mexicana orders DC-10-15s 10/1,p36
Stretch pace increased 10/8,p27
Douglas denies agreeing to modification 10/22,p36
Visual contact lacking in Mexico 11/5,p30
Grounding challenged 11/5,p32
DC-10 voice recorder has gaps 11/12,p16
Aircraft advances expected 11/12,p123
Facilities considered adequate 11/12,p131
Digital avionics expected to lower costs 11/12,p150
Stall scrutinized in DC-10 incident 11/26,p26
Sabena orders A310s and DC-10 11/26,p28
Accident occurred at low altitude 12/3,p23
Federal Express seeking four Continental DC-10s 12/17,p28

McDonnell Douglas F-4
Egyptians buy F-4Es 7/16,p23
USAF curbs training flights 8/27,p15
Koreans seek military capacity 10/22,p62
F-4EJ life-extension studied 11/5,p24
Germans begin RF-4E bomber conversions 11/5,p47

McDonnell Douglas F-15
F-15 flies at Paris 7/2,p22
Supplemental MX, F100 funding cut 7/23,p16
F-15, F-111s depress readiness 8/13,p16
F-15 incident explained 11/12,p23

McDonnell Douglas F-18
F-18 makes carrier landing 11/12,p20
F-18 launched, recovered on board USS America 11/19,p64
Canadian fighter spurs offset battle 11/26,p34
Canadian offset controversy arises 11/26,p34

McDonnell Douglas F/A-18
F/A-18 testing meets Navy's schedule 7/30,p45
Test problems, costs cloud F/A-18 8/27,p16
F404-GE-400 performing well 10/15,p70
Gear problem halts F/A-18 testing 11/19,p24

McDonnell Douglas KC-10
Contract awarded to Douglas 11/12,p21

Mooney M20
Mooney Aircraft improves two models 10/22,p59

AIRCRAFT—U.S.

Northrop F-5
Taiwan places U.S. arms orders 7/16,p24
F-5 sales to Jordan 8/6,p20
Koreans seek military capacity 10/22,p62
Congress studies letter of offer to Korea 11/16,p17

Northrop F-18
Northrop files suit on F-18 11/5,p16

Northrop/McDonnell Douglas F/A-18
F/A-18 radar display compared to airport layout 7/2,p71

Northrop/McDonnell Douglas F-18
F-18L mockup built 10/22,p65
Companies resolve part of F-18 dispute 12/10,p24

OMAC 1
OMAC develops new turboprop 10/1,p16
OMAC 1 testing slated 1980 10/15,p47

Piper Cheyenne
Cheyenne 2 readied for European tour 8/20,p47
Cheyenne 3 sold to dealers 9/24,p41

Piper Navajo
NASA tests crash effects 10/8,p88

Rockwell International 840
Rockwell 980 and 840 in flight 9/24,p35

Rockwell International B-1
B-1 proposed as core aircraft 9/17,p14
B-1 studied as cruise missile carrier 12/10,p48
B-1 tests identify needed improvements 12/10,p53

Rockwell International Sabre
Problems delay certification 9/3,p65

Swearingen Merlin
Swearingen marketing surveillance aircraft 9/3,p67
Swearingen increases production 10/22,p57

Turbo Fleetster
A-Systems evaluates aircraft 7/23,p61

VTX
Alpha Jet eyed as VTX entry 8/6,p38

AIRCRAFT-INTERNATIONAL

Argentina
IA.58B has greater firepower 7/30,p57

Brazil
Xingu shown at Paris 7/23,p48
Embraer chooses PT7A-1 9/17,p25
Embraer plans new aircraft 11/5,p29

Canada
Dash X shown 7/2,p56
Canadair to stretch Challenger 7/9,p22
Transporter at Paris 7/30,p27
Challenger testing completed 7/30,p46
KC Aviation awarded contract 8/20,p47
NTSB issues recommendations following DHC-7 incident 8/20,p73
Traffic spurs Henson purchase 10/8,p30
Prinair certificate suspended 10/29,p36
Challenger delivery positions on market 11/5,p24
De Havilland plans new aircraft 11/5,p29
Dash 8 flight scheduled 11/26,p25

China
Chinese display F-9, F-8, Badger 10/1,p20
Chinese develop Yun-11 utility aircraft 12/17,p75

Czechoslovakia
L-39 Albatros flies at Paris 7/9,p44
L-410 Turbolet shown at Paris 7/30,p27

Finland
Weapons for Valmet 70 displayed 7/9,p51

France
Mirage 4000 makes first public appearance at Paris 7/2,p19
AS 35 commuter transport shown 7/2,p55
Aerospatiale to develop Epsilon 7/9,p57
New Rallye line presented 7/23,p46
Coordination lack cited in Cessna 150, Falcon crash 8/20,p67
Dassault receives Falcon 50 orders 9/24,p53

Germany
Dornier LTA surface area increased 7/2,p57
Fantrainer competing for trainer role 7/9,p53
Gulfstream American ends VFW-614 talks 7/16,p21
Germany delays trainer choice 9/17,p25
Fantrainer exhibits jet characteristics 10/1,p37
Germans plan new fighters 10/15,p73
Germans plan Fantrainer modifications 11/5,p54
Three nations plan TKF-90 feasibility study 12/17,p17

Great Britain
Sea Harrier accelerates in climb from sloped "ski jump" 7/2,p23
Pilatus to double capacity of plant 7/2,p55
Harrier discussions completed 9/3,p69
Aeronca thrust reversers certificated 9/24,p48
McDonnell Douglas team to visit British 10/15,p65
British and Germans plan new fighters 10/15,p73
British seek U.S. joint venture agreement 10/29,p21
Interest growing in HS.146 11/12,p91

Israel
IAI Westwind 2 shown 9/24,p36
Westwind 2 at NBAA 10/1,p15

Italy
MB.339 flies at Paris 7/9,p42
SIAI Marchetti 1019 flies at Paris 7/9,p49
P.68 displayed at Paris 7/23,p53
S.211 designed for low cost operations 7/23,p54
MB.339s delivered 8/20,p23
G.222 sale to Somalia nears 8/27,p17
Italians gearing for MB.339 8/27,p69
MB.326 conversion studied 8/27,p70

Japan
Japan plans $13 billion defense modernization 8/6,p48
Mitsubishi seeks MU-300 certification 9/10,p65
Mitsubishi Diamond 1 shown 9/24,p34
Mitsubishi Solitaire shown 9/24,p51

Netherlands
F-27 production rate increases 7/9,p57
Fokker, Airbus nearing pact 8/13,p32
Europeans penetrate U.S. commuter market 11/5,p28
Overseas participation sought for F-29 11/12,p133

Spain
CASA 101 flies at Paris 7/9,p48

Sweden
SAAB Safari TX flies at Paris 7/9,p48
Swedes to decide on aircraft 10/1,p57
New forging to correct fatigue cracks in Draken 11/5,47
Sweden evaluating proposals 11/19,p53
Danes upgrading Drakens 12/17,p85

Switzerland
PC-7 flies at Paris 7/9,p44
Flamingo T-1 to be marketed 10/8,p74

USSR
MiG-19 operates in China 7/2,p16
Syrian MiGs downed 7/2,p27
Tu-144 makes first flight since grounding 7/2,p30
Soviet design bureau chiefs meet 7/2,p63
An-28 flies over Soviet Union 7/9,p25
Transports displayed 7/23,p28
Il-86 prototype interior detailed 7/30,p36
Il-62 detention cost assessed 9/3,p34
Cuba force clouds debate on SALT 9/10,p16
Chinese operating MiG-21s 9/10,p19
Soviet drawings show design studies for Il-86 9/17,p34
Chinese display F-9, F-8, Badger bomber 10/1,p20
Chinese display weapons 10/15,p20
MiG-27 Flogger D attack version equipped for rough terrain 10/22,p17
Amendment forcing SALT renegotiation fails 10/22,p18
Uralsk Airport goes into service 10/22,p39
Chinese display launcher 10/22,p54
Algerian MiG-25 in flyby 11/12,p24

AIRCRAFT-INTERNATIONAL-CONSORTIUM

A300
A300 demonstrated at Paris 7/30,p26
Airbus asks waiver of duties 9/24,p29
Airbus gears for production increase 11/12,p56
Sales boost forecast for 1979 11/12,p58
A300B derivatives planned 11/12,p59

A310
Fokker, Airbus nearing pact 8/13,p32
Air France postpones decision on powerplant for A310s 10/8,p30
Lufthansa orders CRTs 10/8,p85
French debate A310 engine 10/29,p36
British Caledonian chooses A310s 11/5,p26
Airbus gears for production increase 11/12,p56
Speedy decision expected by TWA on 767, A310 pick 11/19,p30
Sabena orders A310s 11/26,p28
Airbus rolls out A300 freighter version 12/17,p70

Alpha Jet
Stafford evaluates candidate 7/30,p17
Alpha Jet eyed as VTX 8/6,p38

Concorde
British Caledonian drops Concorde plan 7/9,p25
Malaysia extends period it will permit Concorde flights 8/13,p37
Concorde forced to land at Prestwick 9/10,p28
Cosmic radiation levels found acceptable 10/1,p36
Concorde performance maturing 10/22,p26
Modifications saving fuel 10/22,p27
Concordes noise cited less 10/22,p28

Engine shortage hits Air France Concordes 10/29,p28

Tornado

Tornado flies at Paris 7/2,p22
Tornado on test flight 7/16,p41
British mull program change 8/6,p17
Tornado makes supersonic flight 11/5,p21
NATO Panavia training in Canada discussed 11/26,p43

AIRFOILS

Laminar flow control systems advance 11/12,p197

AIRLINE CAPACITY

Traffic, capacity rise in June 7/16,p27

AIRLINE CHARTERS

CAAC to lease 747 for charters 8/20,p24
CAB weighs bid for charters to China 9/3,p29

AIRLINE DEREGULATION

New light transport market emerging 7/2,p55
Airports cautious about future 7/9,p24
Labor-management cooperation gains 8/6,p30
CAB considers aid to airports 8/13,p31
Pacific Southwest looks to Mexico 8/20,p30
Air Florida's route growth attributed to deregulation 8/27,p28
Traffic rise spurs need 9/3,p28
Air California plans growth in interstate route 9/3,p30
Southwest girds for opposition 9/10,p38
Miami traffic raising concern 9/10,p41
Orlando Airport expansion facing obstacles 9/10,p41
FAA weighs additional airport slot quotas 9/10,p44
Western seeks competitive role 9/10,p49
Deregulation act clears House 11/19,p28
British move to counter antitrust actions 11/19,p53

AIRLINE FARES, TARIFFS, RATES

Airlines analyzing coupon impact 7/2,p29
CAB denies coupon complaints grants routes 7/2,p39
Laker offers three-tier fares 7/23,p31
Braniff inaugurates new service 7/23,p40
Coupons stir interest 7/30,p34
Braniff revised pass privileges 8/6,p21
IATA approves fare increases 8/6,p25
Rate-making proposal draws opposition 8/6,p27
Fare shift penalizes carriers 8/13,p32
Pan Am penalized 8/20,p34
State Dept. hits CAB on IATA 8/27,p23
Carriers retreat from discounts 8/27,p24
Public fare disclosure criticized 8/27,p27
Fare structure pivotal to Air Florida success 8/27,p28
Lufthansa fares increase to cover fuel price hike 9/3,p36
Pan Am introduced $108 coach fare on transcontinental route 9/10,p32
Fuel costs pave way for fare boost 9/10,p32
British approve increase 9/10,p44
European group seeking cut fares, better service 9/10,p52
CAB narrows its IATA scrutiny 9/17,p26
CAB asked to terminate IATA probe 10/15,p28
Investigation scheduled on guide listing 10/22,p35
CAB compromise bid spurned 10/29,p24
IATA approves increases 11/12,p27
Midway Airlines gains acceptance 11/26,p21

AIRLINE INCOME, EXPENSE, PROFIT, LOSS

Operating and cost data 747, A300B, DC-10, L-1011, first quarter 1979 7/2,p48
Airline income, expense first quarter 1979 7/2,p50
Laker to try to recover loss 7/23,p26
United reported a loss 7/30,p25
Fuel prices depress Braniff's net income 8/6,p34
British Airways reports profit 8/13,p31
Earnings drop as traffic rises 8/20,p24
Trunk airlines' financial results first half and second quarter of 1979 8/20,p25
PSA second quarter earnings set record 8/20,p30
British Caledonian seeks to control costs 8/27,p24
Financial result chart corrected 8/27,p27
Lufthansa reports profit 9/3,p36
Non-trunk earnings spurt 9/3,p37
Local service airlines financial results first half and second quarter 1979 9/3,p39
Trunks begin tightening belts 10/8,p26
Operating and cost data 747, A300B, DC-10, L-1011 second quarter 1979 10/8,p34
Tax credit helps mask decline in first-half operating profits 10/22,p39
Third quarter earnings plunge 11/5,p26
Trunk airlines' financial results, 9 months 1979 11/5,p27
3rd quarter results 11/5,p27
Airline income, expense, second quarter 1979 11/5,p36
Continental shows financial loss 11/19,p29
TWA aims at profitability in 1980 12/17,p25

AIRLINE INDUSTRY-GENERAL

Carriers battle fuel prices, shortages 7/9,p28
Texas International plans facilities expansion 7/23,p40
Western seeks competitive role 9/10,p49
Middle East Airlines plans major expansion 9/24,p25
Trunks begin tightening belts 10/8,p26
ATA boosts forecast 10/8,p41
IAM pact clears labor outlook 10/22,p30
Traffic spurs Korean expansion 11/5,p33
Airlines foresee benefits in new aircraft 11/12,p82
Midway Airlines gains acceptance 11/26,p21
United, TWA schedule cutbacks 11/26,p24
Tight money stymies Braniff proposal 12/3,p24
TWA aims at profitability in 1980 12/17,p25
Continental evaluating fleet composition 12/17,p28
Air Maroc expands despite fuel costs 12/17,p41

AIRLINE LOAD FACTORS

Passenger load factors rise 9/3,p40

AIRLINE PASSENGER SERVICES

Braniff revises pass privileges 8/6,p21
Carriers oppose smoking restriction 8/20,p26
Pan Am accepts penalty 8/27,p23
Aircraft configuration assures papal privacy 10/8,p25
El Al to sell ancillary services 11/5,p35
Boeing hones baggage handling system 12/17,p29
Passengers react to Los Angeles delays 12/17,p46

AIRLINE ROUTES

CAB denies coupon complaints, grants routes 7/2,p39
Ozark granted transcontinental authority 7/2,p42
CAB readies route restriction removal 7/9,p26
Fuel problems spark TWA service cuts 7/16,p27
Braniff inaugurates new service 7/23,p40
Eastern expanding Air-Shuttle capacity 7/30,p24
Braniff doubling South America service 7/30,p34
Midway plans service in November 8/6,p32
Western drops Cheyenne 8/20,p26
Pacific Southwest looks to Mexico 8/20,p30
British-Chinese service agreement initiated 8/20,p34
CAB accelerates route restriction cuts 8/27,p25
Control centers breaking records 8/27,p26
Continental eyes new route plan 9/3,p26
British seeking to drop routes 9/10,p30
Miami traffic raising concern 9/10,p41
New Zealand, Japan rights sought 9/24,p30
Republic to consolidate routes 10/1,p24
TWA pushes for Florida market 10/1,p28
Fuel problems spur Continental cutbacks 10/15,p26
CAB nears essential service decision 10/15,p28
Interstate service opposed 10/15,p29
Concorde performance maturing 10/22,p26
U.S. urged to stiffen bilateral actions 10/22,p29
Laker appeals for European service 10/29,p25
Braniff expanding its Far East routes 10/29,p34
U.S.-Korean bilateral unchanged 10/29,p35
Chinese ban flights 11/5,p35
Iranian, U.S. operations suspended 11/19,p26

AIRLINE SHORT HAULS AND COMMUTERS

Caledonian Airways to begin London and Atlanta service 11/19,p30
Extensive Latin American rights granted 11/26,p24
Iran institutes strict controls 12/3,p26
Carriers file for London 12/3,p31
British cancel Iranian flights 12/10,p18

AIRLINE SHORT HAULS AND COMMUTERS

Light transport market emerging 7/2,p55
Commuter pressurization rule opposed 7/16,p36
Three named for short-haul studies 8/6,p30
Regional aviation gas shortages emerge 8/13,p20
About 350 taxi operators fall to Part 135 8/13,p32
Southwest girds for opposition 9/10,p38
Southwest considers aircraft replacement 9/10,p38
Fuel lack threatens Ransome service 10/1,p27
FAA expands Part 24 10/8,p41
CAB nears essential service decision 10/15,p28
Interstate service opposed 10/15,p29
Prinair certificate suspended 10/29,p36
Commuters oppose added regulations 11/5,p28
Europeans penetrate U.S. commuter market 11/5,p28
Regional adaptation reflected in earnings 11/12,p28
FAA sets Part 24 conference 11/12,p31
Commuters fear harsher safety guides 12/10,p27
Fatal commuter crashes rise in 1979 12/10,p28

AIRLINE TICKET PRACTICES

Eastern tests ticket printer 8/6,p31

AIRLINE TRAFFIC

Miami traffic increase raising concern 9/10,p41
Traffic, capacity rise in June 7/16,p27
DC-10 grounding hurts totals 7/16,p30
Traffic rise sparks pass privilege cut 8/13,p24
Earnings drop as traffic rises 8/20,p24
Sharp traffic rise spurs commuter aircraft need 9/3,p28
IATA predicts traffic growth 9/24,p27
Traffic grows in September 10/8,p28
Quarterly traffic rises 11.2% 10/15,p29
Traffic spurs Korean expansion 11/5,p33
Traffic gains counter forecast 11/12,p25
Air traffic in Europe snarled 11/19,p24
Chinese predict traffic growth 11/19,p27
FAA studying future traffic 11/19,p37
Trunks' traffic counters recessing trend forecast 12/10,p29

AIRLINE TRAFFIC STATISTICS

On-time performance Mar. '79 7/2,p47
Airline traffic April 1979 7/9,p36
Airline traffic May 1979 8/13,p44
Airline traffic June 1979 10/8,p36
Airline traffic July 1979 10/15,p34
Airline traffic August 1979 11/12,p32
CAB eases access to data 11/19,p40
Airline traffic September 1979 12/10,p36

AIRPORTS

Bradley International Airport
Air museum demolished 10/22,p51

China
Chinese to meet on new airport facilities 12/17,p36

General
Airports cautious about future 7/9,p24
FAA to improve satellite airports 8/13,p22
CAB considers aid to medium-size airport 8/13,p31
FAA authorizes funds 8/27,p40
Japan earmarks funds 9/3,p27
Bill alters funding method 9/3,p40
FAA weighs additional quotas 9/10,p44
Grants to airports called unnecessary, 9/17,p28
Airspace users look for Congress aid 9/24,p55
Study hits scheduling committees 10/15,p25
Solicitation signs posted 10/15,p26
House votes 10/29,p30
Ground problems mount 11/12,p143
Fee rise spurs threat 11/19,p28
Slot study hits committee allocation 11/19,p39

Kennedy International
Il-62 detention cost assessed 9/3,p34

Los Angeles International
Customs relief near at Los Angeles 12/17,p42
Passengers react to Los Angeles delays 12/17,p46

Orlando Airport (Florida)
Expansion facing obstacles 9/10,p41

Santa Monica (Calif.)
Santa Monica ruling lifts ban 7/30,p20

San Francisco International
Airlines suing on funds diversion 9/24,p31

Stapleton International Airport (Denver)
Advanced systems aid profile descents 8/20,p57
New procedures key to fuel savings 8/27,p105

Uralsk (Kazakhstan, Russia)
Uralsk Airport goes into service 10/22,p39

ALTIMETERS

Altimeter easy to service 7/23,p68

ANTENNA

Space antenna developed 11/5,p57

ASSOCIATIONS

Aerospace Industries Assn.
AIA responds to initiatives from AFSC 10/15,p65

Air Transport Assn.
ATA boosts forecast 10/8,p41

ALPA
ALPA plans certification role 11/19,p25

Assembly of Western European Union
United European arms industry urged 10/29,p65

CoCom
Export policy seen harmful to CoCom 9/10,p26

European Economic Community
Airbus asks waiver of duties 9/24,p29
Common Market urged to spur technology 11/5,p46

IATA
Parleys sought to allay fears 7/2,p42
State Dept. hits CAB on IATA 8/27,p23
CAB narrows its IATA scrutiny 9/17,p26
IATA predicts traffic growth 9/24,p27
CAB compromise bid spurned 10/29,p24

ICAO
Conflict likely on standards 10/29,p26

International Maritime Satellite Organization
Comsat to claim holding in Inmarsat 8/20,p64

National Business Aircraft Assn.
Corporate market competition strong 10/15,p53

AUTOMATIC DIRECTION FINDER

Digital ADF stores frequencies 10/8,p85

AUXILIARY POWER UNIT

APU firings test hydraulics 10/29,p16

AVIONICS

Proposal bid previews needs 7/30,p49
Receivers for Navstar detailed 8/6,p63
757 cockpit features new instrumentation 8/13,p42
Boeing award gives Bendix digital edge 8/27,p113
Avionic makers focus on monitor alert units 10/1,p17
Digital avionics expected to lower costs 11/12,p180
757/767 avionics test procedures bolstered 11/12,p186
Boeing studies digital 747 avionics 11/12,p189

BALLOONS

Skyhook balloon tested at Cape Canaveral 11/19,p17

BEAM WEAPONS

Soviet beam-target interaction tested 10/8,p14
Stronger directed-energy effort urged 10/8,p18

BUSINESS FLYING

GE keys civil engine efforts to CF34, CT7 7/2,p74
Business jet studied for SAC trainer 7/23,p14
Business aircraft sales soar 7/23,p46
Business and utility aircraft shipments May, 1979 7/23,p55
Business and utility aircraft shipments June 1979 7/30,p58
Corporate policy tailors fleet 8/6,p49
Business and utility aircraft shipments July 1979 9/10,p69
Corporate orders set records 9/24,p36

Pilot demand spurs gains 9/24,p45
Loan money in record supply 9/24,p51
General aviation gears for fuel problems 9/24,p52
Completion centers' business booming 9/24,p63
Prices of used aircraft skyrocketing 9/24,p67
Demand for aircraft unabated 10/1,p14
Avionics makers focus on monitor alert units 10/1,p17
Growth spurs engine marketing 10/1,p83
Business and utility aircraft shipments August 1979 10/8,p78
Corporate competition strong 10/15,p53
Beech explores nonaerospace products 10/29,p52
Beech continues to seek European suppliers 10/29,p52
Beech retail prices listed 10/29,p56
Bristow Helicopters expands 10/29,p59
Business and utility aircraft shipments September 1979 10/29,p60
Cessna introduces new line 12/3,p79
Business and utility aircraft shipments October 1979 12/3,p85

CHAFF LAUNCHER

Swedish evaluating launcher 10/15,p19

CHEMICAL WARFARE

USAF trains against chemical warfare 7/23,p61

CHINA, PEOPLE'S REPUBLIC

British-Chinese service agreement initiated 8/20,p34
CAB weighs bid for charters 9/3,p29
Chinese operating MiG-21s 9/10,p19
Chinese display mobile rocket launcher 10/22,p54

COLLISION AVOIDANCE SYSTEMS

Collision avoidance plan views diverge 7/23,p70

COMETS

OMB kills missions 11/26,p20
Fund cut forces shift 12/3,p61

COMMUNICATIONS

Laser plan studied 9/3,p73

COMPUTERS & DATA PROCESSING SYSTEMS

Eastern, Sperry in computer deal 7/23,p67
Army awards battlefield data contract 7/30,p52
Northwest will triple reservations system capacity 8/20,p28
Packet-switching seen for weapons use 9/17,p61
Comsat diversifies 10/8,p79
Lufthansa orders CRT 10/8,p85
Computer design seen cutting costs 11/12,p103
Boeing reliance on computer controls grows 11/12,p106
Computer problem slows route control at New York center 11/19,p30
Decision computers studied for ATC 11/19,p37
CAB eases access to international data 11/19,p40
ATC computer failure rise charged 11/26,p28

CONFERENCES, CONVENTIONS, MEETINGS, SYMPOSIUMS

U.S. seeks better frequency sharing 7/23,p65
Service date for fixed satellite pressed 9/10,p75
U.S. wins most, loses on two at radio conference 12/17,p67

CORRECTIONS

Managing director of Wilkinson 7/2,p28
Trunk airlines financial result 8/27,p27
Spectral/stereoscopic accuracies 9/3,p25
AT&T charge for satellite 9/17,p25
MU-300 rate of climb 9/24,p24
CSS-X-4 being modified 10/22,p25
AV-8B roundup 10/29,p21

COVERS

Boeing GSRS fired 7/2
Aerospatiale Dauphin 2 flies at Paris 7/9
Panavia Tornado in low-level flight 7/16
Mirage 4000 flight 7/23
Citation 3 shown in flight 7/30
Westland WG.30 demonstrated 8/6
Challenger shown in flight 8/13
High Gain Antenna assembled 8/20
Shuttle control system tested 8/27
First Trident submarine launch 9/3
Bk.117 in flight 9/10
Solar maximum spacecraft shown 9/17
Beech F90 King Air shown 9/24
XV-15 shown during transition 10/1
Piper Navajo crash test 10/8
Chinese version of Styx missile 10/15
Minuteman Mk. 12 reentry vehicles 10/22
Magsat prepared for flight 10/29
DC-9 Super 80 prototype in flight 11/5
Boeing 757 wind tunnel model 11/12
Royal Navy/Lockheed Polaris test 11/19
General Electric F404 engine 11/26
Cessna Corsair No. 1 prototype 12/3
T-22 missiles 12/10
Lockheed L-1011-500 shown 12/17

CUBA

USSR Cuba force clouds SALT 9/10,p16
Soviets aid Cuban naval buildup 9/10,p17
Air unit shifts to Caribbean scheduled 11/26,p42

DISPLAYS

Super 80 HUD development completed 8/6,p54

DRONES AND RPVs

DAST tested with test wing 7/2,p79
Aeroelastic wing prepared for first flight 7/9,p15
Miniharassment drones urged 7/16,p65
Navy reexamines RPVs 7/23,p20
HiMAT vehicle makes free flight 8/6,p18
BQM-74C tested 8/13,p14
Have Focus drone tested 8/27,p67
MB.326 conversion studied 8/27,p70
Locust drone tested 9/3,p16
Firebrand design phase 9/10,p73
Germans plan recon drone evaluation 12/10,p56

EDITORIALS

Antonov interviewed 7/2,p9
Salute to Skyhawk 7/9,p9
Museum a big hit 7/16,p11
Exploring the universe 7/23,p9
A final word 7/30,p7
Salute to Bob Hotz 8/6,p9
Kissinger testifies on SALT 2 8/13,p9
Aerospace and recession 8/20,p9
A second warning 8/27,p7
A tough budget year 9/3,p11
Pathfinder to Saturn 9/10,p11
A second warning-2 9/17,p9
Tangled in policy 9/24,p11
A mushrooming market 10/1,p9
The Cuban dilemma 10/8,p9
The shuttle barometer 10/15,p9
Trusting the trust fund 10/22,p9
Chickens come home 10/29,p9
NATO and SALT 2 11/5,p11
The next generation 11/12,p9
Airports and the trust fund 11/19,p11
Europe and SALT 11/26,p9
Iran's powder keg 12/3,p9
Misreading the tea leaves 12/10,p11
Modernizing traffic control 12/17,p9

ELECTRONIC WARFARE

Belgium selects F-16 ECM system 8/6,p16
Bistatic airborne radar use studied 8/13,p57
EF-111A exceeds goals 10/29,p68
TAC to receive ALQ-131 12/3,p71
ALQ-165 designed for internal installation 12/3,p71
Rapport 3 housed in enclosure 12/3,p77

EXPORTS AND IMPORTS

Anderson urges export policy 7/2,p14
Paris show generated sales 7/2,p58
Taiwan places U.S. arms order 7/16,p24
DOD proposes arms sales 7/30,p12
Export control advances 7/30,p16
Middle East carriers plan purchases 7/30,p25
Belgium selects F-16 ECM system 8/6,p16
Tariff talks discussed 8/6,p48
Aircraft exports rise 8/20,p22
Export policy seen harmful 9/10,p26
Cessna signs agreement 9/24,p23
Offset delay hampers E-3A buy 9/24,p24
Yugoslavian firm raises sales to Third World 10/15,p18
Export of some aircraft eased 10/15,p22
Human rights policy called failure 10/15,p23
Export curb eases 10/15,p66
Bilateral memos under attack 10/22,p25
Koreans seek new air capacity 10/22,p62
Arms sales curbs reviewed 10/29,p20
Effort to temper arms sales curbs delayed 10/29,p20

Beech continues to seek European suppliers 10/29,p52
Bristow orders Chinook 10/29,p59
State Dept. abandons hope 10/29,p62
British move to counter antitrust actions of U.S. 11/19,p53
Congress studies letter of offer to Korea 11/26,p17
Canadian offset controversy arises 11/26,p34
Intraagency conflict aired 12/3,p17
Initial offsets proposed in Aussie fighter bid 12/10,p54
Export office compiling foreign availability list 12/10,p65
Czar emerges to spur export expansion 12/17,p87

FEE ALLEGATIONS

Textron pleads guilty in Dominican payment 7/16,p26
Textron admits questionable funding abroad 8/27,p103
Indictments tied to payments 11/19,p20

FIBER OPTICS

Air Force to begin test 8/6,p54

FINES AND PENALTIES

Increased fines proposed 9/3,p37
FAA proposed Braniff pay fines 11/12,p14
Braniff receives deadline 12/3,p25

FLIGHT MANAGEMENT SYSTEMS

Flight management capabilities sought by airlines 11/12,p170

FUEL

Carriers battle fuel prices 7/9,p28
Modified fuel reduces fire 7/9,p58
Problems spark TWA cuts 7/16,p27
Fuel supply gains 8/6,p27
Fuel delays Federal Express plans 8/6,p34
Prices depress Braniff's net income 8/6,p34
Regional shortages emerge 8/13,p20
Fuel conservation pressed 8/20,p17
Fouled gasoline grounds aircraft 8/20,p17
Synthetic fuels defense focus 8/27,p19
German fuel prices rise 8/27,p20
New procedures key to fuel savings 8/27,p105
Soviets facing aircraft fuel shortage 9/3,p34
Fuel costs pave way for fare boost 9/10,p32
United paces move into fuel business 9/17,p41
General aviation gears for fuel problems 9/24,p52
Carriers cautious on fuel collaboration 10/1,p27
Fuel lack threatens Ransome service 10/1,p27
Oil spurring Soviet move 10/1,p47
NASA defining fuel-efficient program 10/8,p74
Fuel problems spur Continental cutbacks 10/15,p26
Outlook for fuel dampens growth 10/29,p27
Flameout spurs fuel study 11/5,p25
Company conducts systems examination 11/5,p77
Energy research growing 11/12,p119
Engineers studying air mix system 11/12,p150
Iran clouds airline outlook 11/19,p30
Western plans workforce reduction 11/19,p34
IATA ponders economy with eye on fuel costs 12/10,p34
Synthetic fuel research intensifies 12/10,p37
Liquid hydrocarbon fuel output linked to price 12/10,p43
Turbomeca testing alcohol-based fuel 12/10,p43
Air Maroc expands despite fuel costs 12/17,p41
Future of CRAF linked to fuel costs 12/17,p85

GALLIUM ARSENIDE TRANSISTORS

Gallium arsenide transistor use grows 10/22,p68

GENERAL SUPPORT ROCKET SYSTEM

Joint effort set on GSRS 7/9,p21
GSRS tests to resume 10/1,p23

GROUND TRANSPORTATION

Airtrans changes announced 11/12,p145

HELICOPTERS-U.S.

Bell 214
Bell testing 214 ST 9/10,p57
Bell 222
Bell receives certification 9/24,p77
Bell 412
Bell Helicopter 412 to be a significant program in 1981 9/24,p73
Bell AH-1
Survivability being evaluated 8/27,p60
Bell UH-1
MLS effectiveness evaluated 9/3,p70
Bell JetRanger
Corporate policy tailors fleet 8/6,p49
JetRanger used by KBTV 9/24,p76
Boeing Vertol CH-47
Chinooks to begin test 7/30,p15
Chinook enters flight testing 8/13,p49
Bristow orders Chinook 10/29,p59
General
Manufacturers optimistic 9/24,p73
Bell to stress civil market in 1980s 12/10,p80
Operators cite desired improvements 12/10,p82
Hughes 500
Hughes delivering 500MD 7/30,p19
Hughes AH-64
Budget, technical items delay attack helicopter 7/2,p17
Robertson R22
First R22 delivered 10/29,p61
Sikorsky EH-60
SOTAS contract awarded 10/8,p17
Sikorsky S-76
S-76 production to reach 7 per month 7/23,p23
S-76 directive issued 9/3,p24
Certifying S-76 found difficult 9/24,p165
Production rate increasing 9/24,p151
S-76 contracts renegotiated 9/24,p168
Sikorsky SH-60
Lamps Mk. 3 prototype rolled out 9/3,p21
Australians require 10 helicopters 11/5,p22
Sikorsky UH-60
Army grounds UH-60A 7/2,p14
Black Hawk returned to flight status 8/6,p14
Black Hawk restoration anticipated 9/10,p26
Black Hawk helicopters used in Army exercise 12/17,p77
Sikorsky Seahawk
Sikorsky Seahawk makes first flight 12/17,p19

HELICOPTERS-INTERNATIONAL

France
Bell protests SRR award 7/2,p16
Aerospatiale sees sales edge 7/2,p75
Textron protests Coast Guard award 7/23,p57
Decision expected on SRR contract 9/3,p20
Helicopter work, court action proceed 10/29,p63
TwinStar makes flight 11/19,p77
French, Germans defining new helicopter 12/17,p87
General
Europe seeks greater share of helicopter market 7/16,p42
Germany
BO.105 flies at Paris 7/16,p46
PAH-1 at Paris 7/16,p49
French, Germans defining new helicopter 12/17,p87
Italy
Agusta 109s delivered 9/24,p79

HELICOPTERS-INTERNATIONAL-CONSORTIUM

Bk.117
Bk. 117 in flight test program 8/27,p18
BK.117 begins in-flight tests 9/10,p63
Bk.117 flies from Japan 9/24,p80
PAH 2
French, Germans study joint helicopter project 11/5,p16

HUMAN RIGHTS

Export policy called failure 10/15,p23

HURRICANES

NOAA tracks hurricane 9/10,p20
U.S. aircraft involved in Caribbean relief effort 9/10,p28
SMS 2 tracks Hurricane Frederic 9/17,p23
SMS 2 tracks weather systems 9/17,p72

HYDRAZINE

Low-cost hydrazine use in weapons investigated 9/24,p185

INERTIAL UPPER STAGE

IUS goes beyond interim status 7/16,p52
IUS delivery renegotiated 9/3,p22
USAF studies cancellation 11/26,p18

INTEGRATED CIRCUITS

Proposal bid previews service needs 7/30,p49

JUPITER

Voyager aims altered for Jupiter flyby 7/9,p16
Voyager 2 expands Jupiter data 7/16,p16
Galileo launch vehicle decision near 9/3,p53
Stage constraints curb Galileo options 9/10,p25
Saturn's magnetic field smaller than Jupiter's 10/8,p61
Voyager data reveal new moon 10/22,p19
Galileo program faces rework 11/5,p20

LABOR, EMPLOYMENT, WAGES

Western DC-10 pilots returned to pay status 7/9,p28
Northwest reaches attendant pact 7/16,p31
Braniff revises pass privileges 8/6,p21
Traffic sparks privilege cut 8/13,p24
Panel on pilot age formed 8/13,p31
NASA to accept astronaut applications 8/13,p54
Italy facing pilot shortage 8/27,p70
NATO to counter shortage 9/10,p72
Dismissed engineer intends lawsuit 9/17,p18
TWA cutting workforce 9/24,p30
Corporate pilot demand spurs gains 9/24,p45
Airline employees facing furloughs, layoffs 10/15,p24
Pact clears Northwest outlook 10/22,p30
United furloughs 95 pilots 10/22,p36
Group seeks to block alien hirings 10/29,p22
Retention of highly trained poses serious problems 11/5,p42
Flying Tiger reduces staff 11/19,p26
Western plans reduction 11/19,p34
Retaining skilled keyed to quick fixes 11/19,p43
United, TWA schedule cutbacks 11/26,p24

LAMINAR FLOW

Laminar flow control systems advance 11/12,p197

LANDING AIDS AND SYSTEMS

MLS effectiveness evaluated 9/3,p70
Soviets show new MLS 9/3,p75

LANDING FEES

Airport fee rise spurs threat 11/19,p28

LASER COMMUNICATIONS

Laser plan studied 9/3,p73

LASER GYROS

Commercial market drives laser gyros 11/26,p42

LASERS

Laser lethality demonstration tests completed 7/23,p16
UTRC focuses on lean burn 9/10,p55
High-energy laser system designed 9/24,p182
ABM promise seen in space-based lasers 10/8,p15
Directed-energy effort urged 10/8,p18
UTRC explores industrial lasers 10/8,p62
Laser velocimeter tested 12/10,p23

LAUNCH SITES, GROUND STATIONS, SILOS, BASES

RCA expands facilities 10/8,p45
Soviets accelerate buildup in Kurils 10/22,p24
Vandenberg construction work scheduled 12/3,p15

LAUNCH VEHICLES

Ariane
Europeans organize company 7/9,p18
Ariane flight postponed 8/6,p17
China
China modifying CSS-X-4 10/15,p19
CSS-X-4 being modified 10/22,p25
Chinese display rocket launcher 10/22,p54
Titan
Solid rocket motor readied 8/20,p21
Solid rocket motor tested 9/3,p22
USSR
Soviets launch Indian spacecraft 7/23,p59
Joint mission obtains solar radiation data 11/19,p57

LAUNCHERS

Armored box launcher developed 12/10,p22

LEASING, LICENSING, POOLING

CAAC to lease Pan Am 747 8/20,p24
Cessna signs agreement 9/24,p23

LEGAL ACTIONS

Suit charges false data given to NTSB 8/13,p68
Decision expected on SRR contract 9/3,p20
Engineer intends lawsuit 9/17,p18
Airlines suing San Francisco 9/24,p31
Pakistan sues McDonnell Douglas 10/1,p24
Helicopter work, court action proceed 10/29,p63
Northrop files lawsuit on F-18 11/5,p16
Europeans challenge groundings 11/5,p32
E-Systems sues Iran 12/10,p16
Companies resolve part of F-18 dispute 12/10,p24

LIGHT TOWERS

Fix approved for frangible light towers 7/9,p24

LIGHTING

Signal light system evaluated 10/15,p77

MAINTENANCE, OVERHAUL, REPAIR

Dutch to open new facility 8/6,p41
Fluoroscopic inspection assures quality 8/6,p42
Advanced technology used for F100 system 9/3,p61
DC-10 engine pylon inspections increasing cost 10/1,p34
Modification firms boosting efficiency reducing costs 10/15,p56
New repair process developed for guide vanes 10/22,p67
FAA proposes Braniff pay fines 11/12,p14
Carriers fined on maintenance 11/26,p26

MANAGEMENT

Hans M. Mark nominated USAF secretary 7/2,p27
Pilatus to double capacity 7/2,p55
Europeans organize Ariane company 7/9,p18
Hotz to retire 7/16,p21
Gregory named AW&ST chief editor 7/23,p20
Labor-management cooperation gains 8/6,p30
FAA reorganizes flight standards unit 8/6,p32
Reorganization planned for Westgate-California 8/6,p33
SAMSO to be revamped 8/13,p16
NASA to replace Kennedy Center director 8/13,p17
State Dept. official nominated to CAB 8/20,p28
Comsat to claim 30% holding in Inmarsat 8/20,p66
New McDonnell Douglas unit established 8/27,p17
British Caledonian seeks to control costs 8/27,p24
World mum on future 8/27,p26
Fiscal gains expand Lockheed's vista 8/27,p95
Research activities increase the scope of laboratory 9/3,p58
Trans World to fight takeover 9/24,p25
Aircraft loan money in supply 9/24,p51
GE switches management 10/1,p21
Study critical of Energy Dept. 10/1,p57
AIA responds to initiatives 10/15,p65
Boeing Military Airplane Co. formed 10/29,p23
USAF stresses gains 10/29,p62
Burke succeeds Stafford 11/5,p22
Air Force restructures simulator management 11/5,p46
Accounting board under attack 11/12,p23
Boeing schedule manageable 11/12,p55
British to reshape Rolls 11/19,p18
Procurement policy causing struggles 11/26,p36
UTC realignment targets electronics 12/3,p19

MANUFACTURING TECHNOLOGY

Superalloy R&D activities intensified 8/27,p75
Metal powders use on rise 9/3,p46
UTRC explores capabilities of lasers 10/8,p62

Computer cutting costs 11/12,p103
Computer-controlled production gains 12/3,p41
Consistency primary goal in computerized facility 12/3,p55
Air Force broadens productivity efforts 12/10,p45

MARS

Mars images show disturbance 8/20,p55

MATERIALS

Metals shortage disrupts components fabrication 7/2,p28
Aluminum inspections pressed 8/6,p14
Fluoroscopic inspection assures quality 8/6,p42
Aluminum concern extended 8/13,p17
Aluminum identified as suspect 8/20,p18
British study titanium production 9/3,p17
Suspect aluminum plate broadened 9/3,p22
Metal powders use on rise 9/3,p46
Rolls stressing composites 9/10,p58
Single crystal technology use starting 10/1,p69
Bell studying composites 10/8,p18
SPAR flight will use acoustic levitation for glass processing 10/8,p61
Northrop establishing graphite composite manufacturing center 10/8,p67
Composites programs pushed 11/12,p203
Boeing studies composites 11/12,p205
Gagarin sculptured in titanium 12/10,p22
Composite C-141 wing to be evaluated 12/10,p46
Europeans gear for titanium shortage 12/10,p64
U.S. importing less Soviet titanium 12/10,p64
NASA gives nod to composites 12/17,p74

MERGERS AND ACQUISITIONS

Continental-Western decision set 7/2,p30
Pan Am, Texas free to move on National 7/16,p33
Allegheny eyes Airwest 7/23,p30
Tiger and Seaboard agree to merger 7/23,p30
Wien subsidy increased 7/23,p40
Pan Am gets National majority 7/30,p22
Household Finance Corp. bids for Wien Air Alaska takeover 8/6,p26
Reorganization planned for Westgate-California 8/6,p33
Continental drops merger effort 8/13,p24
Eastern bid opposed 8/13,p25
Wien takeover struggle grows 8/20,p23
Alaska wins skirmish on Wien 8/27,p26
Texas International rebuffed on TWA bid 9/17,p26
Trans World to fight takeover 9/24,p25
Texas International move to acquire TWA wins industry acceptance 9/24,p29
Republic to consolidate routes 10/1,p24
Texas International's takeover of TWA spurs little reaction 10/1,p25
Raytheon, Beech move toward merger 10/8,p24
Eastern to halt pursuit of National 10/8,p29
Tight money, Adams seen TWA takeover hurdles 10/22,p35
Pan Am/National merger approved 11/5,p32
PSA, Valhi resolution stymied 11/12,p28
Air Florida eyeing Piedmont 11/12,p31
Bonn pushes MBB/VFW-Fokker merger 11/19,p51

MICROPROCESSORS

Time-sharing aids design 7/23,p68

MICROWAVE TECHNOLOGY

Hughes to develop microwave imager 7/23,p70

MIDDLE EAST

DOD proposes arms sales 7/30,p12
Carriers plan purchases 7/30,p25
MEA plans major expansion 9/24,p25
Oil seen spurring Soviet Mideast move 10/1,p47
U.S. aiding Saudi construction 11/19,p19
Iranian, U.S. operations suspended 11/19,p26
Iranian crisis clouds airline fuel outlook 11/19,p30
Iran institutes strict controls 12/3,p26
Options in Iran considered slim 12/10,p16
E-Systems sues Iran 12/10,p16
Iranian flights canceled 12/1[illegible]p18

MILITARY EXERCISES

Aircraft survivability evaluated 8/27,p60

MISSILES-U.S.

ABM
Missile defense gains support 10/22,p14
ALCM
Cruise missile flyoff begins 7/30,p14
Boeing probes crash 8/13,p18
ALCM test terminated 10/15,p22
Cruise missiles in flight tests 10/15,p74
Weather could prevent flyoff 12/3,p22
Cruise
Ground-launched cruise missile slips 8/6,p15
New concepts sought 8/27,p12
Bomber/cruise missile carrier studied 8/27,p15
GLCM
Ground-launched cruise missile slips 8/6,p15
Harpoon
Harpoon mounted on P-3 9/10,p72
Launch system tests scheduled 12/3,p22
Hellfire
Acquisition costs rise 8/27,p99
Maverick
Taiwan places order 7/16,p24
Minuteman
Missiles launched in test 7/23,p15
Survivability, accuracy pressed 10/22,p40
MX
Hybrid MX basing wins favor 7/23,p14
Supplemental MX funding cut 7/23,p16
Reentry system tested 7/23,p62
MX basing approval expected 7/30,p12
Approval of racetrack expected 8/13,p15
MX allows doubling shelters 9/17,p16
B-52Ds designated for support of NATO 10/15,p14
Missile defense gains support 10/22,p14
Water supply issue raised 11/5,p23
MX racetrack questioned 11/12,p17
Nevada, Utah study impact 11/26,p14
Air Force to speed environmental studies 11/26,p16
Phoenix
Improved Phoenix firing scheduled 9/10,p73
T-16
New weapons system feasibility shown 9/24,p173
Tomahawk
Successful Tomahawk flights gain confidence 7/9,p23
Sunken Tomahawk found 8/20,p16
Tomahawk recovered 9/3,p19
New applications explored 9/17,p68
Tomahawk successful in vertical launch 9/24,p18
Navy launches vertical Tomahawk 11/26,p53
Launch system tests scheduled 12/3,p22
Trident
Reentry system tested 7/23,p62
British pick Trident 11/19,p63

MISSILES-INTERNATIONAL

China
Chinese display weapons 10/15,p20
Chinese army in missile training 12/17,p76
France
French develop rocket 8/27,p88
Germany
Boeing, MBB team on U.S. Armbrust sale 10/29,p65
Great Britain
British order production of P3T 8/20,p64
British pressing Rapier sale 10/8,p23
Stingray tested 12/3,p18
Japan
Japan testing missile 11/5,p17
USSR
Significance of SS-18 questioned 7/16,p24
NATO seeks to counter SS-20 9/3,p66
SS-16 raises questions 9/24,p24
Soviets push naval weapons 9/24,p139
Missile defense gains support 10/22,p14
Soviets accelerate buildup in Kurils 10/22,p24
SS-20 depicted in drawing 11/12,p18

MISSILES-INTERNATIONAL-CONSORTIUM

HOT
Gazelle armed with HOT missile 7/16,p49
Target system designed for HOT 7/23,p69

NAVIGATION AND GUIDANCE

Millimeter wave guidance under study 7/16,p59
Guidance subsystems effort planned 8/6,p61
Advanced systems aid profile descents 8/20,p57
Ferranti FIN 1064 selected for Jaguar 8/27,p111
INS displays warning 10/22,p29
Honeywell breaks into inertial market 11/19,p78
Canadian offset controversy arises 11/26,p34

NOISE CONTROL

Quiet aircraft, engines available 7/2,p31
Noise bill amendment blocked 7/16,p28
Helicopter rules worry makers 7/30,p17
Santa Monica ruling lifts ban 7/30,p20
Concordes cited less 10/22,p28
House conference key 11/12,p31
Noise bill advances 11/19,p29

NORTH AMERICAN AIR DEFENSE COMMAND

Neglect of bomber, missile defense hit 8/20,p64

NORTH ATLANTIC TREATY ORGANIZATION

Haig warns on strategic position 7/2,p24
Nuclear study accelerated 7/23,p57
Export control advances 7/30,p16
NATO seeks counter force 9/3,p66
Kissinger urges enhancement 9/10,p18
NATO seeks to counter pilot shortage 9/10,p72
B-52Ds designated for NATO 10/15,p14
Biden warns on SALT 2 impact 10/15,p14
NATO rejects Brezhnev's bid 10/15,p18
SALT linked to NATO arms program 10/22,p18
Germany modernizing forces 10/22,p50
Nuclear force termed inadequate 10/22,p51
State Dept. abandons hope on reexports 10/29,p62
Split in Atlantic Council blocks support for SALT ratification 10/29,p64
Congress urged to help improve NATO mutual logistic support 11/19,p22
Dutch reluctant on missiles 11/19,p22
Dutch budget meets guidelines 11/19,p54
Panavia training discussed 11/26,p43
NATO plans draw Soviet protest 12/3,p19
NATO to vote on nuclear program 12/10,p19
NATO approves theater force plans 12/17,p14
NATO plans continued force improvement 12/17,p16
Defense ministers warn of shortfalls 12/17,p16

OBITUARIES

Col. Thomas B. Thompson 7/16,p26
Gen. John D. Lavelle 7/16,p26
Sir John Slessor 7/23,p23
Georgi M. Beriev 8/6,p21
Gen. O. P. Weyland 9/10,p28
Col. John A. Macready 9/24,p24
Joseph Frantz 9/24,p24
Sir Barnes Neville Wallis 11/5,p25
George W. Fey 11/19,p24
John M. Conroy 12/10,p25

PACKET SWITCHING

Packet-switching seen for weapons use 9/17,p61

PILOT REPORTS

Winglets boost performance of Learjet 8/20,p39
Night/adverse weather A-10 provides confident operations 9/17,p46
King Air F90 stresses performance 9/24,p129
Fantrainer exhibits jet characteristics 10/1,p37

POWERPLANTS

CFM
707 reengining test scheduled 10/22,p36
Garrett
Garrett plans new engine version 7/2,p63
Volvo discussing joint development 11/12,p159
GATE
NASA defining fuel-efficient program 10/8,p74
General
UTRC focuses on lean burn 9/10,p55
Engine makers strive to meet demand 10/1,p16
Growth spurs engine marketing 10/1,p83
Manufacturers broaden product 11/12,p160
General Electric
GE keys efforts to CF34, CT7 7/2,p74
CF6 shutdowns investigated 7/30,p23
CF6-32C1 engine has test run 8/27,p29
CF6 shutdowns termed average 9/3,p25
F404-GE-400 performing well 10/15,p70
F-16A planned with J79 11/26,p55
Japan/Rolls-Royce
Japanese, Rolls to develop new engine 12/17,p14
Pratt & Whitney
F100 funding cut 7/23,p16
Advanced technology used for F100 system 9/3,p61
Air Force studies impact of engine delivery delay 10/8,p22
Engine task force formed 10/22,p23
French debate A310 engine 10/29,p36
Decision on F100 apportionment nears 11/26,p18
F100 problems spur durability stress 12/10,p24
USAF opting to send F-100s to field 12/17,p18
Pratt & Whitney of Canada
Embraer selects PT7A-1 9/17,p25
Rolls-Royce
British study titanium facility 9/3,p17
Rolls stressing composites 9/10,p58
Rolls seeking lower fuel specifics 11/12,p147
RB.211-535C engine unaffected by strike 11/12,p149
Rolls optimistic on RB.432 engine economy 11/12,p155
Fuel efficient engines aimed at airlines 12/10,p44

PROJECT

ABRES
Missile reentry vehicles tested 11/19,p63
ACEE
Energy efficiency research growing 11/12,p119
Energy efficiency funding detailed 11/12,p122
NASA drive stresses fuel efficiency 11/12,p167
Composites pushed 11/12,p203
ADAP
FAA acts to improve, expand satellite airports 8/13,p22
FAA authorizes funds 8/27,p40
Bill would alter airport funding method 9/3,p40
House votes airport funds 10/29,p30
Operators seek modification 12/3,p36
AWACS
Rockwell awarded contract 8/27,p17
E-Systems receives contract 8/27,p107
British warn workers of intention to purchase AWACS aircraft 9/17,p24
Offset delay hampers E-3A buy 9/24,p24
ERBE
TRW receives NASA contract 7/23,p67
Have Bounce
Damaged runway tests expanded 12/10,p55
Have Focus
Have Focus drone tested 8/27,p67
MATE
Single crystal use starting 10/1,p69
Pave Paws
Pave Paws impact studied 8/6,p61
Pioneer
Pioneer 11 readied for Saturn flyby 8/13,p16
Pioneer 11 to picture Saturn 8/20,p19
Analysis of Saturn data begun 8/27,p19
Pioneer takes look at a Saturn moon 9/3,p17
Pioneer returns Saturn data 9/10,p22
Pioneer obtains Saturn moon data 9/10,p24
Pioneer's brush with disaster detailed 9/17,p20
Saturn's magnetic field smaller than Jupiter's 10/8,p61
Pioneer views dual 'pinstripes' in Saturn rings 10/15,p46
Saturnian moon discovered by Pioneer 12/10,p66
Computer processing aids Saturn photograph 12/17,p64
Seek Skyhook
Skyhook balloon tested at Cape Canaveral 11/19,p17
Skylab
New attitude lengthens control 7/2,p68
Skylab tumble timing linked to control 7/16,p22
TASVAL
Aircraft survivability being evaluated 8/27,p60
Teal Ruby
Teal Ruby launch delay recommended 9/17,p19
Viking
Mars images show surface disturbance 8/20,p55
Voyager
Voyager aims altered for Jupiter flyby 7/9,p16
Voyager 2 expands Jupiter data 7/16,p16
Voyager 2 heads for 1981 Saturn flyby 7/23,p18
Voyager reveals Jovian moon 10/22,p19

PROPULSION

Solid rocket motor tested 9/3,p22
Hydrazine use in weapons investigated 9/24,p185
Missile subsystem contractor chosen 11/26,p69

RADAR

F/A-18 radar display compared to airport

layout 7/2,p71
Fixes for F-16 radar claimed 7/16,p23
Weather radar developed for Cessna 8/6,p53
Pave Paws impact studied 8/6,p61
Bistatic airborne radar use studied 8/13,p57
Boeing award gives Bendix edge 8/27,p113
Germans award ITT contract 9/3,p66
Interface broadens radars 10/1,p77
F-16 radar improvements funded 10/22,p24
Collins paces efforts 11/26,p58
ARTS-3A readied for New York 11/26,p59
Airport radar developed 12/3,p25

RAMJETS

Artillery technology studied 7/23,p63
Chemical Systems Div. awarded contract 9/24,p20

RECOVERY AND REENTRY

Missile reentry vehicles tested 11/19,p63

RESCUE

Coast Guard using pigeons to locate downed airmen 7/2,p79

RESEARCH AND DEVELOPMENT

Aeroelastic wing prepared 7/9,p15
Three named for short-haul studies 8/6,p30
Superalloy R&D activities intensified 8/27,p75
Research activities increase the scope of laboratory 9/3,p58
United Technologies focuses on lean burn 9/10,p55
USAF to boost funding for research 11/5,p21
Phased technological gains expected 11/12,p111

ROCKETS

French develop new rocket 8/27,p88
SPAR to use acoustic levitation 10/8,p61
Joint mission obtains solar radiation data 11/19,p57

RULES, REGULATIONS, POLICIES, STANDARDS

Taxi operators fall to Part 135 8/13,p32
Increased fines proposed 9/3,p37
UN to weigh space pact 10/1,p51
FAA expands Part 24 10/8,p41
Conflict likely on standards 10/29,p26
Commuters oppose regulations 11/5,p28
FAA sets additional Part 24 conference 11/12,p31
ALPA plans certification role 11/19,p25
FTC curbs advances 11/26,p25
FAA's Part 125 stirs strong opposition 12/10,p86

SAFETY

Accident Liability
Court actions in DC-10 accident prepared 7/2,p39

Accident Prevention
Army grounds UH-60A 7/2,p14
DC-10 review pushed 7/2,p32
Lockheed issues report on L-1011 installation 7/2,p40
Fix approved for frangible light towers 7/9,p24
FAA probe turns to DC-10 slat system 7/9,p30
Jet A fuel reduces fire 7/9,p58
New crack findings prolong DC-10 grounding 7/16,p29
747 pylon cracks found 7/16,p30
Future grounding impact seen 7/23,p24
DC-10s return to service 7/23,p26
CF6 shutdowns investigated 7/30,p23
Aluminum inspections pressed 8/6,p14
Black Hawk returned to flight status 8/6,p14
DC-10 cracks discounted 8/6,p26
NTSB to tighten quality control 8/13,p25
Boeing wing-pylon design unchanged 8/13,p28
Fouled gasoline grounds aircraft 8/20,p17
Aluminum identified as suspect 8/20,p18
F-16s restored to flight status 8/20,p22
F-16 inspections ordered 8/27,p14
Boeing details 747 pylon/wing design points 8/27,p34
FAA charged with downgrading safety of aircraft 8/27,p40
S-76 directive issued 9/3,p24
CF6 shutdowns termed average 9/3,p25
747 inspection ordered 9/3,p26
FAA to alter proposed ATC rules 9/3,p31
Concorde forced to land 9/10,p28
FAA approves weather reporting system 9/10,p51
TWA develops crew safety program 9/17,p36
DC-9 tailcone spurs inspections 9/24,p32
DC-10 inspections increasing costs of maintenance 10/1,p34
FAA to monitor Conquest fixes 10/1,p85
NASA tests crash effects 10/8,p88
DC-9 inspections broadened 10/15,p28
INS displays warning 10/22,p29
Bolt inspection ordered on Skipper 10/22,p59
DC-9 modifications developed 10/29,p24
Conflict likely on standards 10/29,p26
ALPA plans certification role 11/19,p25
Crew size triggers debate 11/19,p27
ICAO speeds data on airworthiness 11/19,p34
FAA may reexamine icing certification 11/19,p66
Manufacturers set safety drive 12/3,p21
Fights opening certification 12/3,p27
Commuters fear harsher safety guides 12/10,p27
Damaged runway tests expanded 12/10,p55
Beech 60 airworthiness directive issued 12/10,p86
Strikes threatened on crew size issue 12/17,p22
Pilots to meet on two-man cockpit crews 12/17,p33

Accident Reports
NTSB scrutinizes midair 8/13,p64
Coordination lacked cited 8/20,p67
British investigate Zambian crash 9/10,p79
Lusaka 707 probe detailed 9/17,p75
British cite causes for Zambia accident 9/24,p189
Dutch dispute Tenerife report 10/8,p91
Dutch differ with Spanish 10/15,p83
Fuel cited in DC-8 crash 11/5,p71
Crew performance called disorganized 11/26,p64

Accidents
Cause of Grumman Goose crash determined 7/30,p40
Boeing probes ALCM crash 8/13,p18
Memo cited in Chicago crash 8/13,p27
HS.748 crashes in Scotland 8/13,p71
Pilot error, indicator cited in Air India 747 crash 8/20,p27
NTSB issues recommendations following Rocky Mountain DHC-7 incident 8/20,p73
HH-1 Zipper crashed 8/27,p22
FAA sets goal for DC-10 action 9/10,p29
727 diving incident studied 10/1,p26
Pilot in command of Pan Am 747 dies 10/8,p26
DC-8 crash spurs recommendations 10/8,p93
F-16 crash linked to refueling relay 10/15,p17
Swissair crash probed 10/15,p29
Douglas denies agreeing to DC-10 pylon modifications 10/22,p36
Air Force identifies F-16 fixes 10/29,p23
Prinair certificate suspended 10/29,p36
Flameout spurs alternate fuel study 11/5,p25
Positive visual contact lacking in DC-10 Mexico crash 11/5,p30
DC-10 voice recorder has gaps 11/12,p16
F-15 incident explained 11/12,p23
FAA review board studies 737/L-1011 near miss 11/12,p24
Gear problem halts F/A-18 testing 11/19,p24
Pilot used normal procedures in AV-8B engine loss, crash 11/26,p19
Midway DC-9 wingtip damaged 11/26,p22
Carriers fined on maintenance charges 11/26,p26
Stall scrutinized in DC-10 incident 11/26,p26
Antarctic accident occurred at low altitude 12/3,p23
Pakistan 707 accident probed 12/3,p27
Fatal commuter crashes rise in 1979 12/10,p28

SATELLITES-U.S.

Antisatellite
Chinese gains hamper treaty 7/9,p18
Priorities set for antisatellite system 9/3,p57

Broadcast
U.S. seeks frequency sharing 7/23,p65
Frequency goals in sight 12/3,p20

Communications
Joint satcom venture planned 8/27,p22
RCA expands facilities 10/8,p45
Shift to millimeter wave in space seen 11/5,p67
Comsat plans hydrologic data relay 11/26,p48
American Satellite to invest in Westar 11/26,p48
Harris plans satellite system 12/3,p65
Possible FCC strictures concern Comsat 12/10,p18
Hughes seeks C-band satcom authority 12/17,p62

Comstar
AT&T studied satellite operation 9/10,p26
Early Warning
Improvements planned 8/6,p18
Galileo
Galileo launch vehicle decision near 9/3,p53
Stage constraints curb options 9/10,p25
Galileo program faces rework 11/5,p20
GEODSS
Surveillance system passes reviews 8/27,p48
Global Positioning System
Rockwell charges investigated 11/5,p18
Landsat
Landsat problems cloud supply of data 10/8,p20
Landsat tracks oil spill 10/8,p42
Leasat
UHF antenna readied for Leasat tests 12/17,p17
Magsat
Magsat to measure variations 10/29,p17
Navstar
Tests slated for Navstar 7/23,p58
USAF awards GPS contracts 7/30,p21
Modular receivers detailed 8/6,p63
GPS to test nuclear sensor 8/27,p51
Rubidium clock failures plague Navstar 10/8,p45
Navstar to guide missiles 10/8,p45
Assist module studied 11/19,p60
NOAA
NOAA-6 placed in orbit 7/9,p20
TRW receives contract 7/23,p67
NOAA tracks hurricane 9/10,p20
P80
Teal Ruby delay recommended 9/17,p19
Pegasus
Pegasus reentry expected Nov. 5 10/15,p17
Satcom
Satcom 3 has final check 10/22,p61
Soviets parallel U.S. trends 11/5,p23
Satcom 3 affects underwriters, cable TV 12/17,p23
Satellite Business Systems
Shuttle may alter launch 7/23,p22
Scatha
Scatha charge dissipation succeeds 7/16,p20
SMS
SMS 2 tracks severe weather systems 9/17,p72
Stereosat
Comsat General presses effort 9/10,p25
Synchronous Orbit Platform
Study contract awarded 7/2,p25
Tactical Military Communications Satellite
USAF to develop satellite 9/10,p76
Westar
Westar-3 launched 8/9
American Satellite to invest in Westar 11/26,p48

SATELLITES-INTERNATIONAL

Arab
Hughes, MESH contend for Arabsat 11/12,p23
Australia
Australia plans satcom 11/19,p18
India
Soviets launch Indian spacecraft 7/23,p59
India's satellite seen economical 12/10,p72
Italy
Italian space spending increase receives approval 12/17,p64
Japan
Japan forming satcom unit 8/6,p18
USSR
Soviets display Luna replica 7/2,p69
Salyut 6 boosted to record high orbit 7/16,p23
USSR exhibit Navsat 7/16,p57
Radio telescope erected on Salyut 6 8/13,p54
Priorities set for antisatellite system 9/3,p57
U.S. experiments set 9/10,p28
Russians launch biological satellite 10/1,p22
New Russian mission questioned 10/29,p15
Soviets plan to resume manned flights in 1980 10/29,p49
Soviets plan to use Salyut 6 again 11/19,p19
Soviets launch Cosmos 1143, 1144, Meteor 2 and Intercosmos 20 11/19,p19
Soviet Intercosmos 20 prepared for launch 12/17,p61

SATELLITES-INTERNATIONAL-CONSORTIUM

Communications
Service date pressed 9/10,p75
Intelsat
Intelsat traffic growth forecast 7/16,p65
Intelsat weighs needs 10/8,p48
Marisat
Comsat orders ship terminals 8/20,p66
Solar Polar Mission
Solar satellites to fly 'mirror image' orbits 9/3,p53
Contract awarded 10/8,p25
Timing, budget spur mission 10/29,p46
Television Satellite
French/Germans to begin satellite effort 12/10,p69

SATURN

Voyager 2 heads for Saturn flyby 7/23,p18
Pioneer 11 readied for Saturn flyby 8/13,p16
Pioneer 11 to picture Saturn 8/20,p19
Analysis of Pioneer 11 data begun 8/27,p19
Pioneer takes look at a Saturn moon 9/3,p17
Pioneer obtains Saturn moon data 9/10,p24
Magnetic field smaller than Jupiter 10/8,p61
Pioneer views dual 'pinstripes' 10/15,p46
Saturnian moon discovered by Pioneer 12/10,p66
Computer processing aids Saturn photograph 12/17,p64

SEMICONDUCTORS

Semiconductor lead times lengthening 7/2,p71
Gallium arsenide use grows 10/22,p68

SENSORS

Missile sensor slated for Army delivery 12/17,p67

SIGNAL PROCESSING

Army awards contract 7/30,p52

SIMULATORS

Air Force restructures simulator management 11/5,p46
Total simulation training pushed 11/12,p191

SOLAR PROJECTS

Solar power studied for satellites 10/1,p61
Mission obtains radiation data 11/19,p57
Solar mission to more than double sun data 12/17,p52

SOLID ROCKET MOTOR

Solid rocket motor readied 8/20,p21
Solid rocket motor tested 9/3,p22

SOVIET UNION

Antonov interviewed 7/2,p9
Swedes press Soviet ATC completion 7/23,p30
Soviets to expand ATC 7/23,p31
Soviet carrier policies shifting 8/20,p14
Soviets facing fuel shortage 9/3,p34
Soviets push naval weapons 9/24,p139
Oil seen spurring Mideast move 10/1,p47
Beam-target interaction tested 10/8,p14
NATO rejects Brezhnev's bid 10/15,p18
Missile defense gains support 10/22,p14
Soviet military spending found to top U.S. 10/29,p67

SPACE MEDICINE

Soviets credit exercise for cosmonauts' health 8/27,p21

SPACE PLATFORMS

Space platform under review 8/27,p54

SPACE SHUTTLE

Shuttle launch postponed 7/2,p26
Rocketdyne studies engine shutdown 7/9,p16
First shuttle tank gets final check 7/9,p19
Shuttle tests may be delayed 7/16,p16
Delays may alter SBS launch 7/23,p22
Carter asks for briefing 8/6,p21
Shuttle modifications to be made 8/20,p21
Shuttle control system test fired 8/27,p59
Space funding tradeoffs loom 9/3,p16
Spacelab shuttle experiments set 9/3,p17
Space test pointing systems defined 9/3,p24
Shuttle tile protection, repair studied 9/3,p49
Test rule changes ordered 9/3,p49
Power extension package studied 9/3,p51
Administration backs fund rise 9/17,p22

SPACE SUITS

Changes expected in management 9/24,p20
Shuttle tile testing 9/24,p21
Countdowns revised for shuttle 10/1,p58
Shuttle tile repair delayed 10/8,p21
Aborts pose challenges 10/15,p39
NASA pushes new tile tests 10/15,p44
Shuttle engines undergoing checkout 10/15,p45
Closer attention to needs urged 10/22,p21
Shuttle demand shifts policies 10/29,p14
Shuttle manifest saturated 10/29,p15
Center prepares for flight 10/29,p18
Center starts shuttle stacking 11/5,p18
Rockwell contract investigated 11/5,p18
Space antenna developed 11/5,p57
Engine malfunctions cause delay 11/12,p20
Air Force seeks control center 11/12,p21
Carter backs shuttle fund rise 11/19,p16
NASA studies nozzle modification techniques 11/19,p16
USAF studies stage cancellation 11/26,p18
Shuttle weld cited 11/26,p19
Plans cover emergency landing 11/26,p45
Vandenberg construction work scheduled 12/3,p15
Deficient material raises concern 12/10,p20
Shuttle all-up systems tests start this week 12/10,p21
Satellite sponsors shift to shuttle 12/10,p22
Liquid system picked to augment shuttle 12/10,p66
Shuttle backup crew completes tests 12/17,p63

SPACE SUITS

Maneuvering unit tested 10/29,p45

SPACE SURVEILLANCE

Electro-optical system passes reviews 8/27,p48

SPACE TECHNOLOGY-U.S.

Space funding tradeoffs loom 9/3,p16
Shift to millimeter wave seen 11/5,p67

SPACE TECHNOLOGY-INTERNATIONAL

Italy
Italian space spending increase receives approval 12/17,p64

USSR
Progress docking extends intensive Salyut activities 7/9,p20
Salyut 6 boosted to record high orbit 7/16,p23
Soviets ready Salyut 6 crew return 8/13,p21
Radio telescope erected on Salyut 6 8/13,p54
Procedures prompts Salyut EVA 8/20,p20
Soviets to resume manned flights 10/29,p49
Soviets plan to use Salyut 6 again 11/19,p19

SPACE TOOLS AND INSTRUMENTS

Telescope erected on Salyut 6 8/13,p54
Telescope tested under water 8/27,p54

SPACELAB

ESA and NASA to begin negotiations 7/2,p26
Spacelab shuttle experiments set 9/3,p17
Experiment costs ordered cut 9/3,p56
Spacelab experiments set 9/10,p27

STOL, V/STOL, VTOL, Q/STOL

Supersonic V/STOL need envisioned 8/20,p50
McDonnell Douglas team to visit British 10/15,p65

STORMS

Air museum demolished 10/22,p51

STRATEGIC ARMS LIMITATION TREATY

Minority leader opposes SALT 7/2,p18
Haig warns on strategic position 7/2,p24
SS-18 role questioned 7/16,p24
Joint chiefs call SALT modest 7/16,p25
SALT abrogation urged 7/23,p16
Verification fears ease 7/30,p18
Support tied to gains 8/6,p20
Spending demands spur needs 8/13,p14
USSR Cuba force clouds debate 9/10,p16
SS-16 raises questions 9/24,p24
Biden warns of impact on NATO 10/15,p14
SALT linked to NATO arms program 10/22,p18
Amendment forcing renegotiation fails 10/22,p18
Council blocks support 10/29,p64
Racetrack questioned 11/12,p17

STRIKES, BOYCOTTS, JOB ACTIONS

Strikes worry engine makers 7/23,p22
World Airways strike continues 8/13,p23
World mum on future 8/27,p26
Flying Tiger machinist strike 9/3,p30
Nationwide strike hits British industry 9/17,p24
Flying Tiger strike ends 9/17,p41
Strikes jeopardize deliveries 9/24,p19
Air Force studies impact of engine delivery delay 10/8,p22
Rolls strike ends 10/8,p30
USAF, Navy form engine task force 10/22,p23
RB.211-535C engine unaffected 11/12,p149
Flying Tiger reduces staff 11/19,p26
Strikes threatened on crew size issue 12/17,p22

TELECOMMUNICATIONS

Service date for fixed satellite pressed 9/10,p75

TEST FACILITIES

Dutch to open new engine test facility 8/6,p41

TRACKING AND SCANNING

SFIM develops sight 7/16,p45
Target identification upgrade sought 8/6,p59
Surveillance system passes reviews 8/27,p48
Lockheed receives Army contract 9/10,p18
SOTAS to incorporate data link 9/17,p77

TRAINERS

USAF, Navy set trainer needs 7/9,p14
Trainers vie for market 7/9,p42
Business jets studied for SAC trainer 7/23,p14

TRAINING

USAF curbs training flights 8/27,p15
Teams form for Navy program 10/8,p14

UNITED STATES GOVERNMENT

Defense Dept.
DOD hit on weapon estimates 7/2,p17
Spending demands spur needs 8/13,p14
Neglect of bomber, missile defense hit 8/20,p64
Grumman hit hard by decisions 8/27,p13
Brown ducks promise 9/24,p22
House hits concurrency 10/1,p21
Top 100 contractors listed 10/22,p74
Accounting board under attack 11/12,p23
GAO foresees cost rises 11/19,p23
Procurement causing struggles 11/26,p36

Energy Dept.
Carter makes cabinet shifts 7/30,p16
Study critical of policies 10/1,p57

UNITED STATES GOVERNMENT AGENCIES

Civil Aeronautics Board
Parleys sought to allay fears 7/2,p42
CAB readies restriction removal 7/9,p26

Federal Aviation Administration
FAA reorganizes unit 8/6,p32
FAA charged with downgrading safety 8/27,p40

Federal Trade Commission
Eastern guide listing investigated 10/22,p35
FTC curbs advances 11/26,p25

NASA
Attack on NASA funding fails 7/30,p19
NASA to replace director 8/13,p17
NASA to accept astronaut applications 8/13,p54
Space funding tradeoffs loom 9/3,p16
Conferees to delete House language from budget 10/29,p14
OMB slashes initiatives 11/26,p20

NOAA
NOAA asigned remote sensing oversight 12/3,p14

UNITED STATES NAVY

House slates probe 9/24,p146
Air unit, training shifts to Caribbean scheduled 11/26,p42

VENUS

Efforts pushed to salvage flight 10/22,p61

VICON

Signal system evaluated 10/15,p77

WEATHER REPORTING SYSTEM

FAA approves system 9/10,p51